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ENTERPRIZES (WE LOVE OUR CUSTOMERS) BOX 550, BARRINGTON, ILLINOIS 60010 Phone 312/382-5244 to order then put a zero into the Y register. The Y register is like the Accumulator, but it is usually used the way FOR I = 1 TO 200 would be in BASIC—it counts events and can also act as an offset for storage. Notice line 834. We are storing the 5 in the Accumulator at address 37888 (the start of color memory). However, since we have attached the Y to the end of this number, it means that we are using another special addressing mode. This mode will store what's in the Accumulator into the number given (37888 in this example) *plus* whatever number is in the Y register. At this point, zero is in the Y register, so a 5 is POKEd into address 37888 + 0. This is how Y can be used as an offset.

Likewise, we also POKE the 5 into 38144 which is halfway up the color memory. In effect, we are going to fill color memory in two chunks, two stages. That's because the Y register can only count up as high as 255 and then it resets itself to zero. To fill an area like the color memory, which is larger than 256 bytes, we need to store twice, with the second storage address being 256 bytes higher than the first (see lines 834 and 837).

How Registers Reset Themselves

At this point, the Y register is decremented with the DEY command. It's the same as saying, in BASIC, Y = Y - 1, except that in ML a register cannot go below zero. Instead, it clicks down to 255 when you take it below zero. If you lower it through zero, it looks like this: 4,3,2,1,0,255,254, etc. (This also happens at the other end. If you add 1 to the Y register when it is holding 255, it will become a zero: 254,255,0,1,2, etc. The fact that the registers reset themselves like this is very useful in ML programming.)

In any case, we lower the Y register with the DEY command and then test to see if it has become a zero yet. BNE means Branch if Not Equal to zero. The first time through this loop, Y was pulled down from 0 to 255 so the computer is forced to branch back to line 834. 255 is not zero. This time around, the POKEs will go into different addresses within color memory than they did the first time. Now Y (added to the 37888 or 38144) will produce a different target address for the POKE. By continuing through this loop until Y has been decremented to zero, we manage to fill the entire color memory with the number 5.

After going through the loop 256 times in this way, Y has finally counted down to zero and so we won't, for once, be forced to branch from line 841. Instead, we fall through to line 843 which puts a 0 into the X register, which acts much like the Y register. In the next loop, we're going to use the X register as an offset.

Making An Endless Loop

Now that color memory is set up, we create a second loop which is functionally identical to the first except that this time our purpose is to move sections of the computer's memory to the screen. We're going to send the 256 bytes which start at address 0 and another 256 bytes which start at address 512. This time we'll use a +X addressing mode to load the Accumulator as well as store the Accumulator (LDA and STA). Rather than use a branch instruction, however, this time we end the loop with a jump (JMP) which will always send us back up to the start of the loop. This endless loop will continually display memory on screen until you press RUN/STOP and RESTORE.

Using The Assembler

When you are using this assembler (Program 1) you should follow the addressing mode conventions which appear on screen whenever you run it (see lines 150–185). In a nutshell, you use no commas or \$ symbols. Not only is this easier to type, but also it allows the assembler to use a simple INPUT statement to receive your program lines. Many 6502 assemblers require that you separate numbers from symbols with a comma, as in: STA 37888, Y. They also require that you use hexadecimal numbers which are preceded by the \$ symbol. If you should want to use hexadecimal with this assembler, just change line 10 so that H = 1. If you don't know what hexadecimal is, it's just as well. That's a subject for a future lesson. You can program in ML without it anyway.

The disassembly examples above show the format for entering ML commands into the assembler. To make all this clear, let's type in and run the example ML program.

1. Load the assembler program (Program 1) and make sure line 10 says H = 0 because we'll be typing in ordinary decimal numbers, just as they appear in the disassembly listing.

2. Run the assembler. After reminding you of its addressing conventions, it will ask you for the starting address. Answer 830 and press RE-TURN. That's the address where the ML program will be assembled in your computer's RAM memory. It's in the cassette buffer and will be safe there during assembly. When we've finished, you can type SYS 830 and see the results of our efforts.

3. Now, if your assembler is working correctly, it will clear the screen and list the 830 address with a question mark. It's waiting for your first ML instruction. If you have a VIC, type in the first instruction in the VIC disassembly listing. (If you use a 64, type in the instructions

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from the 64 disassembly instead. Otherwise, follow the same process.) Type: LDA #5 and press RETURN. The assembler will pause briefly and then store two numbers (169 and 5) into memory as well as displaying them on screen. (169 is the computer's code for LDA # and 5 is, of course, 5. The purpose of an assembler is to take the commands like LDA which are easy for us to remember and turn them into numbers like 169 which the computer can obey. It's something like the way BASIC tokenizes the word PRINT into the number 153.)

Seeing Your Computer's Clock

After you press RETURN, the assembler will print the next available address and await your next input. Now you would type LDY #0 and press RETURN. Continue on down, typing in all the lines until you've finished with JMP 845. After that line is entered, type END and the assembler will return you to BASIC mode and report where your ML starts and ends in memory.

At this point, you have created a tiny, but complete, ML program which is waiting for you to test it. Just SYS 830 and you should see a screenful of odd characters. We've opened a window to the first 256 bytes in RAM as well as the BASIC keyboard buffer. The character which seems to be constantly rotating is your internal



clock. And if you type on the keyboard, you can see it coming into the keyboard buffer (up to a maximum of ten entries). To exit the program, press RUN/STOP and RESTORE. For a different view, type ?CHR\$(14) to set lowercase mode and SYS 830 again. Try holding down the SHIFT, Commodore, and function keys to see the effects. Since there is more room on the 64 screen, we have opened two extra windows, to show the video and interface chips, in the bottom half of the 64 screen.

Now, break out of the ML program again with RUN/STOP-RESTORE and type LIST. There's the assembler program, still in memory, unaffected by all the excitement. Let's assume you want a different color. Just type RUN. When the assembler fires up, give it 830 as your starting address again and then enter:

LDA #8

and press RETURN. Now type END to stop assembling. You have just caused the assembler to POKE over the previous LDA #5. The rest of the ML program remains the same. Try it. SYS 830 to see the effect.

Some Experiments To Try

If you want to observe different parts of your computer's memory, fiddle with the addresses given in lines 845 and 851 of the disassembly (lines 851, 856, 862, and 868 in the 64 version). What would happen if you had the contents of the screen sent *to* the screen? How about sending things from an address just slightly above or below the start of screen memory? What if you put different numbers into the Y registers with LDY? You can make any adjustments you like by just giving the assembler the starting address of where you want to write over something and typing END when you're finished.

Programs 2 and 3 are ordinary BASIC. They contain, in DATA statements, the VIC and 64 versions of this same program. If you have problems assembling, you could just type the loaders in, run, and then SYS 830 to see the same effects. Remember that the assembler changed our LDA #5 into 169 5 which it then POKEd into RAM memory? Notice the first two numbers in the DATA statements of Program 2. This should clarify how BASIC loader programs can create ML programs. A BASIC loader just holds a prewritten, freeze-dried ML program in DATA which it then POKEs into some spare RAM memory. There is no particular advantage to a BASIC loader except that on the VIC and 64, you can more easily save and load such programs to or from tape or disk.

See program listing on page 197.

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SIMPLE ANSWERS TO COMMON QUESTIONS

Tom R. Halfhill Staff Editor

Each month, COMPUTE's GAZETTE will tackle some questions commonly asked by new Commodore 64/VIC-20 users and by people shopping for their first home computer.

If you have a question you'd like to see answered here, send it to this column, c/o COMPUTE!'s GAZETTE, P. O. Box 5406, Greensboro, NC 27403.

Q. I've had some trouble getting my new modem to work with my computer. Sometimes the phone link disconnects for no reason, and other times everything I send or receive comes across as garbage. What's going on?

A. Modems can be very finicky devices. Some people are lucky enough to get them working right away, while others struggle endlessly with all kinds of mysterious problems. We'll discuss some of the difficulties we've encountered in our own experience and suggest some possible solutions.

To begin with, make sure the modem, telephone line, and computer are all hooked up properly. Even if you're positive everything is correct, review the instructions and check again. One time we spent ten minutes trying to figure out why a modem wouldn't generate a carrier tone, only to discover that its power cord was plugged into a wall socket controlled by a light switch—and the switch was turned off. Another time we got a carrier tone, but couldn't understand why a file refused to upload—the sending modem wasn't plugged into the computer interface. You'd be surprised how many telecommunications troubles can be traced to such simple mistakes.

Another thing to watch for is whether you are *originating* or *answering*. If you own a Commodore modem, there should be a switch on the side labeled O/A. If you're calling a commercial bulletin board, you're originating the call and the switch should be set to O. If you're calling a friend, one of you will be originating, the other answering.

Be certain the terminal program you're using is compatible with the modem. Then be sure you've adjusted the program correctly for the computer and modem at the *other end* of the phone line. Some computers require different parameters for parity, stop bits, word length, and so on. Any good terminal program lets you adjust the most important of these parameters. Be prepared to experiment for awhile to find just the right combination. If possible, find someone else with a similar setup who's already communicating with the remote computer and find out what settings they use.

If your program is adjusted properly and you're still sending or receiving garbage characters, it probably means there is "noise" on the line. Noise can be caused by anything from poorly fitting cables to the static of a weak longdistance telephone connection. Keep extension cables between the telephone socket, modem, and computer as short as possible. Keep the phone cables away from power transformers, color TV sets and monitors, and other devices emitting strong magnetic fields. If you hear static on the phone line when you hold a receiver to your ear, the connection may be too poor for reliable telecommunications.

If you're using an acoustic modem instead of a direct-connect, use a phone with a standard handset that fits tightly inside the rubber cups. Don't make any loud noises near an acoustic modem. Remember, modems transmit information over phone lines by sending audible tones. If either modem "hears" any extraneous sounds, it might interpret them as tones and attempt to translate them into characters. One time we were puzzled by occasional garbage characters in a file we were downloading from a distant computer. When we turned off the music playing in the same room, the garbage disappeared.

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possibility, you can have the lines checked by your local phone company. However, phone companies aren't always very cooperative in these cases. They don't certify standard residential lines for telecommunications purposes, so they may not feel obligated to check and repair your lines if they work for regular voice transmissions. Also, if they check your lines and find that something else is to blame, they might charge you for the service call.

If you've succeeded in establishing a link with the remote computer, but the connection is occasionally disrupted, two common problems are party lines and call-waiting services. You should lease a private line if you'll be doing much telecomputing. Otherwise your links will be interrupted everytime someone else on the party line picks up the phone to make a call. The same goes for call-waiting services: The audible click which is your signal that another caller is trying to reach you will confuse the modem and disrupt the link.

Sometimes a modem problem will be so mysterious that you'll never solve it. This happened to one of our editors. His new directconnect modem on his home system refused to receive anything but garbage. Step by step we eliminated the possibilities: Everything was hooked up properly; the software was compatible; the communications parameters were correct; and the modem even worked perfectly with the same computer and software on other people's phones around town. Therefore, it seemed that the phone lines were to blame. But when the local phone company finally agreed to check the lines, it declared nothing was wrong.

Then we discovered that another editor's old acoustic modem worked fine on the stubborn system. It didn't make sense—both modems were transmitting at 300 baud and were hooked up exactly the same way, except the new one was direct-connect and the old one was acousticcoupled. Nobody could explain why one worked and the other didn't. Our final "solution": Since the direct-connect modem worked fine on the other editor's system, they simply traded modems.

Another acquaintance with similar problems discovered that his 64 and modem worked on the telephone in the living room, but did not work on the extension in the family room (where the computer was originally set up). Since one phone line was apparently cleaner, the simple solution was to move the computer.





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POWER BASIC

SLOWPOKE

Daniel R. Widyono

This very short machine language program, from a twelve-year-old author and programmer, allows you to control the speed of the PRINT command. We've added some suggestions for using this unique routine. For the VIC and 64.

When a Commodore 64 or VIC-20 is printing something or listing a program, you can slow it down by pressing the CTRL key. You have a choice of two speeds, regular and slow. If you've ever used an Apple II, you probably know that it gives you a wider choice; there are 256 printing speeds.

Can a similar feature be added to the VIC or 64? You could use a BASIC subroutine, although it would be rather complicated. You would have to define a string, do a FOR-NEXT loop for the length of the string, use MID\$ to pull out a character, print the character, use another FOR-NEXT loop for the delay, then continue until the message is done. The subroutine would work only as part of a program. You'd still have to press CTRL to slow down program listings.

A Better Way

There's a short, simple, and effective machine language alternative to the BASIC subroutine.

Enter and save the following program:

- 10 CK=0:POKE251,0
- 20 FORJ=679TO703:READA:CK=CK+A:POKEJ,A:NE XT
- 25 IFCK<>3615THENPRINT"CHECK DATA STATEME NTS":END
- 30 DATA72,138,72,152,72,8,166,251,240,8,1 60,255,136,208,253,202,208,248,40
- 40 DATA104,168,104,170,104,76
- 50 IFPEEK(807) <> 2THENPOKE704, PEEK(806):PO
 KE705, PEEK(807)
- 60 POKE806, 167: POKE807, 2

Now run the program and type LIST. It lists as you would expect. Type:

POKE 251,255:LIST

and you'll see a very slow listing. The program takes more than a minute to list (compared to less than a second at the regular speed). POKE a 0 into 251 and the computer returns to normal.

You now have 256 different printing speeds, from zero, the fastest, to 255, the slowest. There's no need to use a BASIC subroutine or to SYS. Just POKE the speed you want into memory location 251. It works within programs and also in immediate mode. It even slows down error messages and the READY prompt. If you use a printer while "Slowpoke" is on, it will wait in between lines (but not between characters). You'll notice, however, that it does not affect your typing; the computer still reads the keyboard at the regular speed.

Pressing RUN/STOP-RESTORE disables Slowpoke. To get it back, you have to either RUN the loader program again or type:

POKE 806,167: POKE 807,2

(If you use these POKEs, make sure you put them on the same line, separated by a colon.)

How It Works

I was looking through a memory map and discovered a *vector* at 806–807 which points to the character out (CHROUT) routine in the operating system. The Kernal CHROUT vector (in ROM, which cannot be POKEd) uses this vector (in RAM, where it can be changed) to find the routine which sends a character out to screen memory, to a printer, or to a tape or disk file.

When the computer gets an instruction to PRINT, it checks the Kernal vector, goes to this vector, and finally ends up at the instructions for printing. The computer has to look up the address for every character it prints, even if the characters are part of a long string. The address is stored in the usual low byte/high byte format.

Vectors are like highway signs pointing the way to a destination (in this case, the character out routine). By changing the numbers in memory locations 806 and 807, we can change the route, adding a slight detour, a machine language delay loop. When the computer tries to PRINT or LIST, the vector at 806–807 sends it to the delay loop, which is followed immediately by a jump to the usual CHROUT part of the operating system.

Since machine language is so fast, we need two delay loops, one inside the other. First, the X register is loaded from location 251. If 251 holds a zero, the rest of the loop is skipped (using BEQ, Branch if EQual to zero). Then the Y register is loaded with the number 255. Y is decremented (DEY) until it becomes zero. Next, X is decremented and a BNE instruction (Branch

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if Not Equal) loops back to the DEY loop. The higher the number in 251, the longer the loops take. At the slowest printing speed, X has to be decremented 255 times, while Y is decremented 255 \times 255 (over 65,000) times.

The values of X and Y are always 0 after the loop is done, so to be safe, the values of the A, X, and Y registers, as well as the processor status, are saved. They are pushed onto the stack before the routine is executed and pulled off after the delay loop.

The delay loop occupies a small area of memory at locations 679–767. If you need this RAM for other ML programs, Slowpoke is relocatable. You can move it to the cassette buffer (location 828 on) or other free sections of memory. If you have a program which uses zero page location 251, change the 251 in line 30 to another available zero page location.

Some Ideas

One useful application of Slowpoke is to slow down program listings. Load and run Slowpoke, then load the program you're working on. You can control the speed of the listing with a single POKE.

If you are working on a game and the rules take up a couple of screens, you can use this program to make them slowly scroll up, rather than the usual method of printing a screen and waiting for the user to press a key to get the next page. This same idea could be adapted to a story program; at the end of the story, roll the credits (just like at the movies). Many programs which put a lot on the screen could use a printing speed control.

The program is a good debugging tool if you are having problems getting the screen graphics just right. You should note, though, that only the PRINT command is affected; POKEing to screen memory is not any slower than usual.

Slowpoke could be very useful with a program which examines tape or disk files. You would open the file, read an item, print it to the screen, then use a GET statement to see if a key has been pressed. If not, then continue with the next item. If f1 is pressed, speed up the printing; if f7 is pressed, make it slower. It might even be adapted to a speed reading program.

Finally, if you're familiar with machine language programming, you could make a slight modification to add sound effects. Just before the delay loop, turn on the noise generator and turn it off at the end of the loop. Each time you printed something, you would hear, say, the clicking of a typewriter. If you wanted to get really fancy, you could add a bell sound at the end of each line.

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HINTS&TIPS

Creating Program Listing Files

Richard N. Wilfong

If you've discovered a clever timesaving technique or a brief but effective programming shortcut, send it to "Hints & Tips," c/o COMPUTE!'s GAZETTE. If we use it, we'll pay you \$35. Due to the volume of items submitted, we regret that we cannot always reply individually to submissions.

Did you know you can LIST programs on your VIC or 64 to tape or disk files? The results are completely different from using SAVE, and there are a variety of interesting applications for this technique.

The Problem: Adding Comments To ML Programs

Micromon is a good machine language monitor, but you end up short of good documentation. Micromon's assembly feature doesn't allow comments (which are similar to BASIC REMark statements). You can send a disassembled program listing to a printer, but if you want comments you have to write them out on paper.

It becomes a problem when you start to work on a machine language program written months earlier. The original notes might help a little, but you usually end up disassembling the program line by line. (Here's an FFD2, which means print. Next, there's an LDA indexed by Y —where did Y get its value?—and now a loop where the accumulator is rotated.) It can be a mess.

The problem can be solved with an unusual application of CMD. You may know how to print BASIC program listings using CMD (OPEN 4,4: CMD 4: LIST). This BASIC command diverts output from the screen to a previously opened file. CMD 4 sends the program listing to logical device number 4 (in this case the printer) instead of the screen.

Now let's try the same thing, using a disk file to receive the disassembly of an ML program. First, load Micromon and your ML program. In the immediate mode (without a line number), enter:

OPEN 2,8,2,"DISKFILE,S,W": CMD 2: SYS 49152

First, a sequential file is opened for writing. CMD 2 then tells the computer to send everything to this file instead of the screen. The SYS enables Micromon (assuming you're using Micromon installed at location \$C000 on the 64). If you're using another machine language monitor—Supermon or VICMON, for example change the SYS value accordingly. And, of course, you can call the file something other than *diskfile*.

If you have a tape drive, change the first part to OPEN 2,1,1,"TAPEFILE".

Now use the D command, with a beginning and ending address, to disassemble your ML program. For example, if you have a program in the cassette buffer, you would enter .D 033C 03FB. Your disk or tape drive will run for a few moments. You now have to close the file. Exit from Micromon (using the X command) and type:

PRINT#2: CLOSE2

The newly created file contains an ASCII disassembly, which can be read (and edited) using *EasyScript*. If you use *SpeedScript* (or *WordPro*), you'll have to change the sequential ASCII file to *SpeedScript* format, using the conversion program in "SpeedScript Revisited" (COMPUTE'S GAZETTE, May 1984). Choose option three: *Commodore ASCII to SpeedScript*.

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LISTing BASIC Programs To A File

Although I originally used this technique to add comments to a Micromon disassembly, it also works on BASIC listings. Follow these steps:

1. LOAD the BASIC program 2. Enter OPEN2,8,2, "DISKFILE,S,W": CMD 2: LIST

3. Next, PRINT#2: CLOSE2

Tape users should change step 2 to OPEN2,1,1, "TAPEFILE": CMD 2: LIST.

A Few Suggestions

It's possible to read through a saved BASIC program by OPENing the file and using GET# to extract pieces of the program byte by byte. Unfortunately, the program will seem to be jumbled. The most confusing thing is that all BASIC commands are in token form. PRINT, for example, appears in program files as a 153 (you can test this by PEEKing a program when it is in memory).

Listing a program converts the tokens to the corresponding BASIC words. A 153 is translated to the five letters P, R, I, N, T. This same process of detokenization happens when you create a tape or disk file with the OPEN, CMD, LIST se-



quence. The one byte tokens are expanded to the full BASIC commands.

Once the program has been listed to tape or disk, you can do some interesting things.

Assuming you have a word processor and a printer, you can call up the program listing file and edit it as if it were a text file. To make a BASIC program more readable, add some blank lines in between the major routines and subroutines. Believers in structured programming can indent all FOR-NEXT loops and clean up the format.

Machine language programmers using a monitor like Micromon can add (previously unavailable) comments, to clarify the logic of the program. With a SEARCH or HUNT function, you can find all instances of JSR \$FFD2 and replace it with the easier to understand JSR PRINT. You can label subroutines and tables.

With a multifont printer, you could add bold, italic, or expanded print headlines to your program.

You can also use program listing files to create much more readable listings on your printer. OPEN 4,4: CMD 4: LIST is the most common and simplest way to list to a printer. But certain characters are hard to understand-a reverse heart for "clear screen," a reverse Q for "cursor down," and so on.

Program listing files can help eliminate these difficult characters. First, load the program you want to list. Create a sequential listing file (using the technique described above). Type NEW and enter the following program:

- 1 OPEN1,8,2, "FILENAME,S,R"
- 2 GET#1,A\$:IFA\$="{CLR}"THENPRINT"[CLR]";: GOTO4
- 3 PRINTAS;
- 4 IF ST<>64THEN2
- 5 CLOSE1

Tape users should change line 1 to OPEN 1,1,1,"FILENAME". Make sure that when you type line 2, the first CLR is the SHIFT-CLR/HOME character (reverse heart) and the second CLR is spelled out, inside square brackets.

This program banishes the reverse heart from your program listings. Instead, you see [CLR]. As it is written, it lists to the screen. To adapt it to a printer, you'll have to OPEN a file to the printer and change PRINT to PRINT#. You can expand this lister program to replace inverse function key characters, cursor controls, color characters, and so on. Just add some more IF-THEN checks.

Line 4 is important because it checks the status variable (ST). When ST is 64, it means you've reached the end of the file. The file is then closed and the lister program ends.

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Charles Brannon Program Editor

HORIZONS: 64

The nearest cousin to the 64 is Commodore's new Plus/4 computer. An evaluation model arrived recently, so let's take an in-depth look at this new machine. It might be well worth your time to compare the features of your 64 to those of this new "productivity" machine before deciding if the Plus/4 is a worthy replacement or significant addition.

Physically, the Plus/4 is tiny, with barely enough room for the keyboard. But packed inside this small box is a complete 64K computer with color graphics, sound, built-in BASIC, and "productivity software." The keyboard's layout is much like the 64's, with a few keys moved around and some extra functions added. The keys are half as high, with a shorter stroke, almost identical to the keyboard of the portable SX-64. The cursor keys are shaped like arrows and arranged in a special cursor pad. Four small rectangular buttons above the keyboard provide eight function keys, with function 8 labeled as HELP. A second CONTROL key replaces the RE-STORE key found on the 64 and VIC.

Along the right side of the computer is a power switch and a chip reset button. The reset button performs a cold reset, wiping out your program as if you turned the power off and on. If you hold down the RUN/STOP key as you press the reset button, you call up the built-in machine language monitor, where you can type X to exit to your unharmed BASIC program. When you hold down RUN/STOP as you turn the power on, the Plus/4 goes straight into the ML monitor with BASIC mapped out, giving you a full 64K of memory. By the way, the Plus/4 uses a 6502-compatible microprocessor. Thanks to the Kernal, many useful ROM calls used on the VIC and 64 will also work unchanged on the Plus/4.

The left side of the computer reveals a TV connector and channel 3/4 switch (called H-L). On the back is a square power connector, a standard round serial bus port, a small round cassette port, a user port, a cartridge slot labeled "memory expansion," two small round joystick ports, and an eight-pin round video socket. The serial bus will accept any VIC/64 serial peripheral, so if you already have a 64, you can use your existing disk drive, printer, and most printer interfaces with

the Plus/4. The video socket works with a standard video monitor or the 1701/1702/1703 monitor via the rear connections.

Most irksome are the joystick and cassette ports. Even though the same circuitry is used, the connectors have been changed, so you can't just plug in your Datassette or any of dozens of joysticks. Printer interfaces that draw power from the 64's cassette board have no place to plug into the Plus/4. Commodore may well have chosen the smaller connectors to more easily pass FCC regulations (smaller, unexposed connectors may transmit less RF interference). It shouldn't be too hard to rig up an adaptor, if a plug for these strange sockets can be found.

A Powerful BASIC

The Plus/4 has a powerful BASIC, with features of disk BASIC 4.0 teamed with Super Expander graphics, and 60K available for BASIC programming. At last, you can access almost every graphics feature without resorting to PEEKs, POKEs, and machine language. SHIFT-RUN/STOP defaults to loading the first program from disk. No more LOAD "\$",8 or OPEN 15. Commands like DIRECTORY, SCRATCH, and RENAME make disk operations smooth and easy. Additional disk commands are: DLOAD, DSAVE, HEADER (New), BACKUP (works only with dual drives), COLLECT (Validate), and COPY.

Missing is any command to initialize the drive. For this you'll need the old OPEN 15,8,15,"I". Unlike CBM BASIC 4.0, there are no DOPEN or DCLOSE commands.

BASIC has been enhanced with structured statements like DO:LOOP UNTIL and IF/THEN..ELSE. GETKEY waits for a keystroke. PRINT USING makes formatted printouts easy. Programming is much easier with KEY, which lets you redefine the function keys. Functions 1-7 can type out any stream of keys. Function 8 types HELP. When your program crashes on an error, you can press f8 to see where your program stopped, with the offending statement flashing. You can DELETE a range of lines, RE-NUMBER your program, or enter AUTOmatic line-numbering mode. In TRON (TRace ON) mode, the line number is shown as the line executes. TROFF turns off the trace. www.commodore.ca

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Sound And Music

Once you've heard the SID chip, the Plus/4's sound is rather disappointing. Still, it has 10-bit resolution, two clear voices, and white noise capability—something of an improvement on the VIC-20 sound chip. It acts like the sound chip used in the TI-99/4A. VOL controls the volume, from 0 (off) to 8 (loud). SOUND x,y,z plays pitch y on voice x for z sixtieths of a second. Using VOL, you can simulate a crude ADSR envelope. It's a usable sound device, with no frills, and it's a lot easier to program than the mighty SID. For games, it should produce acceptable bleeps, blats, whirs, and explosions. The sound is good enough for music. If only we hadn't been spoiled by the SID chip.

121 Colors

The Plus/4 has almost the same text and graphics modes as the 64, but with a plus—121 colors. The basic 16 colors—except black, of course can be displayed in any of eight brightness levels. This gives you eight grays, or a red ranging from a summer sunset to a flamingo pink; a muddy brown to a lemon-yellow. Since the three grays available on a 64 are replaced by the eight different shades of white, there are some new colors, including blue-green and yellow-green. You have all 121 colors available in text mode. In addition, text can be displayed in reverse color or flashing at the same rate as the cursor. All the Commodore graphics characters are supported, including upper/lowercase mode.

This BASIC is a graphics extravaganza. There are two bit-mapped modes: high resolution and multicolor. High resolution gives you 320 imes200 dots. Each 8×8 pixel zone (the same area as a single character) can have its own foreground color. When two colored lines intersect, the conflicting region is only one of the colors. You have much better color control but half the horizontal resolution in multicolor, with four non-interfering colors and 160×200 resolution. There are separate memory locations for each color, which you can set with the COLOR statement. Additionally, if you change the third color register, anything drawn in that color will instantly change, letting you make large areas of the screen flash and glow.

The GRAPHIC command selects whether you want high-resolution or multicolor. Two of the modes have a five-line text window at the bottom, so you can try out graphics in direct mode. A fault with the text window is that it's easy to move the cursor out of the window and "under" the graphic screen where you can't see it. You can also elect whether or not to clear the screen when you change modes. After a GRAPHIC call, BASIC is moved above the graphics screen, and 10K of memory is lost from BASIC to be allocated to graphics. GRAPHIC CLR will return the memory after you are finished with graphics. The text mode is GRAPHIC 0.

Graphics Commands

The DRAW command lets you draw points and connected lines. CHAR is used to place text on either the text screen or on the graphics screen at any X,Y position. BOX can draw any rectangular shape at any angle. The CIRCLE command lets you draw round circles, ovals, arcs, or polygons, in color and at any angle of rotation. PAINT fills in any area of the screen. It can fill any strange shape, as long as it's completely enclosed.

There are no commands for sprites, simply because there are no sprites. How can you program games in BASIC without sprites? Well, you could draw and erase shapes in the graphics modes, which is what GSHAPE and SSHAPE seem to be for. SSHAPE stores a rectangular area of the screen into a string. Since a string can only hold 255 bytes, there is a limit to how big a shape you can grab. GSHAPE can then draw the shape anywhere on the screen. With the Exclusive-OR option of GSHAPE, you can move small objects without disturbing the background, but it's too slow for fast action games. Looks like we'll need turbo-coded machine language for game programming. Another option is character animation, which is fast, but coarse.

Productivity Software: 3 + 1

The built-in word processor, spreadsheet, data base, and bar charts are supposed to be the clincher. Who needs sprites when you have these? When you turn on the computer, pressing f1 switches on the software. It's a big package, with a huge manual. You'd think that easy-touse software wouldn't need such a large manual. Having used this software, I can only say it's mediocre compared to the best commercial software for the 64.

The word processor comes up with yellow text on a black background, although you can change the colors to a more pleasing combination. It gives you a maximum of 99 lines, not a lot of text, which makes it more appropriate as a letter or memo processor. Horizontal scrolling gives you more than 40 characters per line. It has a lot of features and commands, but is very hard to learn and use. The command TS jumps to the spreadsheet. As spreadsheets go, this one isn't bad, but it is slow. You can split the screen and have the word processor in the top half and the

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spreadsheet at the bottom. You can move values from the spreadsheet to the word processor, or move text the other direction.

The so-called graphics option can turn a column of the spreadsheet into a scaled bar chart. The bar chart is several vertical lines made up of # signs, inserted into the word processor. You use the word processor to type in labels and values.

The file manager lets you create records with up to 17 lines, each holding up to 38 characters. The records are stored on their own disk. You must dedicate an entire disk to your data base. You can sort the data, even merge it with the word processor. A search command lets you quickly find a record or series of similar records. This is a minimal program, but it works.

In general, the built-in software is useful, but lacks flair. Instead of being menu driven or activated with keystrokes, the software is controlled in command mode, where you type several characters (the name of the command). Writing or calculating requires you to memorize a list of cryptic sequences. The word processor is clumsy. INST/DEL affects the entire document, not just one paragraph, unless you set a pointer to the current line. INST/DEL works up to a pointer, so you can set and clear pointers as needed, but you have to switch to command mode first. The horizontal scrolling can drive you crazy, since the cursor wraps around at the left margin. It's hard to write when you can't see half of what you've written. The horizontal scrolling is handy for business use, though, making it easier to set up 80-column charts and tables.

It's not clear who will buy this machine, though it may sell well. Software houses are concerned that they can't sell a word processor, spreadsheet, or data base to owners of this machine. They needn't worry. Only a little work is needed to improve on the built-in software. If the Plus/4 succeeds, a translation of SpeedScript would be a natural. With the new super-fast parallel disk drive, the SFS 481, which works only with the Plus/4, perhaps small businesses can use the machine. Even though it lacks many game features, the machine has an excellent BASIC and built-in machine language monitor, making it a good machine for teaching and learning programming. The built-in software will at least permit anyone to use the machine right out of the box. Finally, the price is fairly low, just under \$300.

What's intriguing is that this machine costs more than a 64, but *must* be cheaper to produce. In hardware, the most expensive parts are the chips. The Plus/4's single TED chip integrates a video chip, sound chip, a timer, and keyboard circuitry. All you need is a microprocessor, memory, and a few support chips to make the Plus/4. The case is small, the keyboard probably is cheaper than the 64's, and it uses the less expensive sockets. All in all, Commodore could probably sell this machine for around \$100 and still do well. Perhaps this is their secret plan. The 64 first sold well at \$600, and gobbled up the home computer market like a voracious Pac-Man at \$200. And if the Plus/4 could sell for \$100, why give up your 64? Buy a Plus/4 and you have *two* computers, without re-investing in disk drives and printers.

You can't use much of your 64 software on this machine, except those BASIC programs that don't use POKEs, PEEKs, or machine language. (Can you think of any that don't?) If you own both a VIC and a 64, you'll have some idea of the compatibility problems. But the Plus/4 is an interesting machine.

Warp Drive For Your Disk Drive?

You might be interested in a program that lets you load programs three times as fast from your 1541. First mentioned in our CES story, *Kwik-Load* is a simple and effective product. When you load *Kwik-Load* into memory, program LOADs proceed at a bearable pace. It really works. We loaded "Campaign Manager" in 7 seconds with *Kwik-Load* versus the normal 21 seconds. Highresolution screens come in a line at a time. It seems that this is the solution to 1541 "wait states."

But *Kwik-Load* has many limitations. It cannot load most commercial software or programs like *SpeedScript* which take over the entire machine. Apparently, *Kwik-Load* requires a little space at the tail end of the reserved block \$C000-\$CFFF, which isn't a very safe space after all.

However, *Kwik-Load* includes a highly useful menu-driven disk program. You can copy disks three times as fast, and format disks at more than twice normal speed. You can scratch, rename, or validate a disk. Also included is a disk speed check. If a 1541 is having trouble, alignment, not speed, is the thing to check first, but a proper speed of 300 rpm is important, too. A disk sector editor that lets you read and write hexadecimal and ASCII data directly to the disk is a handy tool for learning about a disk, or recovering damaged files. Given this bonus, and despite the limitations, *Kwik-Load* is a good buy at \$19.95.

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Dan Carmichael, Assistant Editor

VIC Mailbag

In this month's column, we'll take a look in the mailbag and answer a few questions.

Shifting Gears

Page 9 of the 1541 disk drive instruction manual states that the speed of the 1541 must be changed when it is used with the VIC. The command: OPEN 15,8,15,"UI-" is supposed to be entered before reading or writing to the 1541.

I have used the disk drive with my VIC on a number of occasions without first setting the speed, and it seems to perform fine. I am concerned, though, because the drive ended up quitting, and had to be returned to Commodore for repair. Could the failure to set the speed have been the cause of the breakdown? Timothy Haley

The UI— and UI+ commands are used to change the speed of the 1541. They do not actually change the speed of the disk drive's motor, but instead change the speed at which the drive internally accepts or writes data.

Commodore recommends that before using the 1541 with the VIC-20, you type *OPEN* 15,8,15,"*UI*—". This changes the speed of the 1541 for use with the VIC-20. However, this is optional. Here's why.

The disk drive model previous to the 1541, the 1540, was designed to operate with the VIC-20, and transferred data at a faster rate than the newer 1541.

The biggest misunderstanding of the UI-, UI+ command is that UI- (because of the minus sign) slows the speed of the 1541. In fact, it speeds up the rate of transfer, and emulates the faster speed of the 1540.

This is the reason the 1541 performs adequately with the VIC-20, even when the UI command is not entered. On the other hand, the Commodore 64 is set to accept data at a slower rate (UI+), and might experience problems if it's used with a 1540 or a 1541 set at the faster speed. One of the main reasons that the 64 is slightly slower is that it must maintain a thousand characters on its video display, compared to only about 500 for the VIC. This also explains why 64s have to blank the screen whenever cassette files are accessed, as timing is equally important in cassette operations.

It should be noted that initializing the 1541 (OPEN 15,8,15: PRINT#15,''I0'':CLOSE15) will automatically reset it to the default setting of the slower speed.

Neglecting to enter the UI – command was not the cause of your hardware failure.

VIC to 64 Conversions

If I get a 64K or 32K expansion cartridge and a 40-column board for my VIC, will I be able to run Commodore 64 programs on it? If not, what would be another way of modifying my VIC programs to run on the 64?

Michael Scarola

BASIC programs which do not contain POKEs, PEEKs, or other machine specific routines should run equally well on the VIC and 64. However, because most programs contain POKEs and/or PEEKs, the answer is generally no.

It makes no difference if the VIC's memory is expanded or unexpanded. The lack of compatibility stems from the differences in memory locations, *not* memory size. For example, changing screen and border colors in the VIC is done with a single POKE to 36879, while in the 64 it takes two POKEs to memory locations 53280 and 53281. Also, producing sound with the 64's sophisticated SID (Sound Interface Device) chip is more complicated and requires many more POKEs than is necessary to produce sound on the VIC. This list of differences goes on.

The only way to convert VIC programs to run on the 64 is to go through them line by line, and change all the machine specific routines, POKEs, and PEEKs.

Mysterious POKEs

At the beginning of many programs for the VIC-20, I have seen two memory locations (36869 and 36879) POKEd with different

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numbers. I'd like to know what these memory locations are used for.

Jim Walunas

Memory location 36879 is used to set the screen and border colors and to toggle the character set between the inverted and normal mode. By POKEing various values here you can change the screen and border colors or turn on/off the reversed character set. The first three bits (0-2)give you eight border colors, bit 3 turns the inverse screen on or off, and the top four bits control the sixteen available screen colors.

Memory location 36869 is used to control the screen and character memory addresses.

Bits 0–3 of this byte point the VIC (Video Intérface Chip) chip to the character set. The nor-` mal value of these four bits is 0. Changing this value causes the VIC chip to look elsewhere for the character set information. This is done when, for example, you want to use a custom character set you have put in RAM.

Bits 4–7 in combination with bit 7 of memory location 36866 are used to determine the beginning address of screen memory. To change the location of screen memory, the value of these bits must be changed as well as the value of memory location 648, which tells the computer's operating system where to look for screen memory.



Adding Sound

I have a VIC-20 and a BMC monitor. I've figured out which pins are used to connect the monitor, but I am unsure how to hook up the sound. Is there a way to hook up a speaker at the same time?

David Grant

Yes. On the rear of your VIC, there is a 5-pin DIN plug that is used for audio/video connections. The wiring for the 5 pins is as follows:



1. +5 volts reg.

- 2. ground
- 3. audio
- 4. video low
- 5. video high

To hook up your sound, connect one speaker wire each to pins 2 and 3. It should be noted, however, that driving a speaker straight from the plug might damage the VIC chip. For this reason, you should connect the two pins to the input of an amplifier, and connect the speaker to the amplifier output.

You should be able to find a small utility amplifier at your local electronics dealer. Another suggestion might be to hook pins 2 and 3 up to your stereo amplifier. The auxiliary input jacks are good for this purpose.

When wiring to your stereo, be careful with the polarity of the connections.

The Incompatible 1526

My VIC-20 and Commodore 1526 printer don't seem to get along. I have not been able to print a program listing. When I enter the standard OPEN 4,4: CMD4: LIST commands, I only get about three lines of the program, then the printer shuts off. What am I doing wrong? Bob Le Beau

According to Commodore, the latest versions of the 1526 are for use with the Commodore 64 only. A few problems have arisen with incompatibility between the VIC and this printer. These stem from serial bus allocation problems, especially when the tape drive is used with the VIC.

If you are using a 1526 and a tape drive, try this: Immediately after any cassette activity, including LOADs or SAVEs, type *SYS64490*. This Kernal routine clears the serial bus, and prepares it for use with the printer.

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Programming Sound And Graphics With The Super Expander 64

Lee Noel, Jr., Assistant Editor, Art & Design

Tired of endless PEEKing and POKEing to get the sound and graphics you want on your 64? This cartridge offers some alternatives.

The programming capabilities of *Simons' BASIC* have drawn considerable attention from 64 owners. But Commodore's *Super Expander 64*, while less well known, is a powerful and flexible tool which offers several useful features not found in *Simons' BASIC*.

The Super Expander 64 (which sells for about \$50) is a ROM cartridge—a program frozen in the memory of a computer chip.

Unlike the widely used *Super Expander* for the VIC-20, this cartridge does not provide any additional memory for the 64. In fact, it consumes some, leaving 30719 bytes free for BASIC programming. However, the many powerful features more than compensate for the lost memory.

Essentially, the *Super Expander 64* extends the 64's BASIC programming language, giving the user more direct control over the computer's sound and graphics. Among its features are ten different preprogrammed instrument sounds, a built-in sprite editor, and direct mode control of all its features—none of which are available in *Simons' BASIC*.

The Language Of The Expander

Since the *Super Expander 64* is a program in ROM, it's immediately and permanently available to you as soon as you turn on your computer. To use it, you have only to learn some new BASIC keywords and include them in your programs.



Figure 1

The expander adds 32 new words to BASIC: BOX, CHAR, CIRCLE, COLINT, COLOR, DRAW, FILTER, GRAPHIC, GSHAPE, KEY, LOCATE, MOVSPR, PAINT, RBUMP, RCLR, RDOT, RGR, RJOY, RPEN, RPOT, RSPCOL, RSPPOS, RSPR, SCALE, SCNCLR, SPRCOL, SPRDEF, SPRITE, SPRSAV, SSHAPE, TEMPO, and TUNE.

While this is a fairly lengthy list, it's still quite manageable by comparison to *Simons' BASIC's* 100-plus new words—more than 40 of which are needed to cover the sound and graphics features offered by the expander.

Many of the words are self-explanatory. For example, BOX draws a box, PAINT fills a shape with color, TEMPO sets the general speed for music and sound effects, and so on. Even the odd looking words were carefully devised. Words

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starting with R return information to the program, GSHAPE (G for GET) puts a previously saved area of bitmap back on the screen, and SSHAPE is the command that saves a piece of bitmap. For the most part, the new words are readily comprehensible, and brief experiments tend to clear up any problems very quickly.

These keywords, termed *commands* and *functions*, are combined with additional elements, *parameters* and *arguments*, to form statements in the extended BASIC.

To help you master the expander, there is a 65-page manual that explains in relatively plain English how to use the program. But as often happens in documentation of this kind, there are a few minor errors. In the manual, each command or function is followed by a combination of numbers and punctuation marks in a set group—not unlike BASIC commands.

But for those using the manual, a word of warning is in order. Using the expander word CIRCLE, here's a sample of the the way the manual charts a keyword and its attendant parameters.

CIRCLE[source],[X1,Y1]<,X-rad>[,[yrad][,[start][,[end][,[angle][,[inc]]]]]]

This is difficult enough to type; let alone comprehend. Not surprisingly, the manual itself misses the occasional bracket. Just ignore this system—all you have to do is count the number of parameters and figure out what each of them does. You'll very quickly come to understand them on your own terms.

How does all this work in practice? Let's look at a graphics display generated with the aid of the expander. The complex shape shown in Figure 1 was drawn by the expander and the following program.

```
10 GRAPHIC2,1:COLOR0,7,,,0:SCNCLR
20 FORI=0TO300STEP4
30 CIRCLE1,160,100,I,I,,,I,120
40 NEXT
```

To see how Super Expander 64 BASIC works, let's take a brief look at this program. First, it clears the screen and makes it entirely black. Next, drawing in yellow, the program makes a small triangle near the center of the screen. (By choosing appropriate parameters, the CIRCLE command can be used to draw squares, ellipses, regular or irregular polygons, triangles, and even straight lines.) It then increases the size of the triangle and draws it again, but tilted slightly to the right. This process is repeated over and over again, until the triangle is much larger-parts of it don't even appear on the screen—and has been turned 300 degrees from its original position. That's all there is to this complex picture.

A Lot For A Little

The language of the expander is not only powerful, it's succinct. It's doubtful whether an equally brief program written in *Simons' BASIC* could produce identical results. On the other hand, once you had written a slightly longer version, *Simons' BASIC* structured programming would enable you to call it by name every time you wanted to use it as part of a longer program. With the expander, you'd be stuck with going to a numbered subroutine.

The expander offers another significant advantage over *Simons' BASIC*. All keywords and parameters may be entered in direct mode directly from the keyboard, without being in a program. This feature, which can offer distinct advantages to the programmer, is not available in *Simons' BASIC*. As a matter of fact, the entire program we just looked at can be entered in direct mode: The three commands in line 10 are typed in as a unit, then the entire FOR/NEXT loop—all without the need for line numbers.

Graphics Made Easy

The expander's GRAPHIC command offers four types of screen display. In addition to the highres screen used above, there's a multicolor bitmap mode, a mode for normal text, and a combination of high-res with a five-line text window.

SSHAPE and GSHAPE can pick up sections of the screen display and move them. This is accomplished by transferring the necessary visual information into a string variable and then retrieving it.

CHAR allows easy formatting of text display in all graphics modes. A simple column-row coordinate system allows characters to be placed without the usual trial-and-error methods.

There are many other graphics commands, but they all work in a similar way.

Of course, the Super Expander 64 offers a lot more than graphics.

The KEY command allows easy programming of the function keys, especially useful considering that expander keywords cannot be abbreviated—they must be typed out in full. KEY can be used to assign any eight keywords to the function keys. There they'll be available at the touch of a key or two. When first turned on, the expander automatically provides one such group of useful words.

Three words, RJOY, RPEN, and RPOT, allow the easy reading of information from joysticks, lightpens, and game paddles. Not only does this considerably simplify the programming of games that use these devices, but also it opens up the possibility of writing serious programs for users

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who have an aversion to the keyboard. Many people, for example, find pressing the fire button on a joystick more understandable than pressing the RETURN key.

Simplified Sound

The Super Expander 64 has only three sound keywords—TEMPO, TUNE, and FILTER—but they perform a variety of functions. Like most Super Expander 64 words, these, too, must be accompanied by parameters. However, sound is so well arranged on the expander that there's initially no need to alter any parameters.

When the computer is first turned on, the expander has already set up ten instrument-like sound forms. These include piano, drum, flute, organ, and six other sounds. For those primarily interested in creating game sounds, the drum sound will be particularly useful.

Playing music and making sound becomes simple. First, the SID chip is turned on by either PRINT CHR\$(6); or PRINT"CTRL-F";. Next, sound information is assigned to strings in much the same way that screen information is treated for GSHAPE and SSHAPE. In this case, though, the programmer makes up a string of control numbers and ordinary letters. The strings are then played by simply PRINTing them. That's right, the normal BASIC PRINT command is used by the expander to play music.

To avoid confusion in *Super Expander* 64 programs, it's a good idea to reserve the PRINT command for just music and sound, and to use the CHAR command to place characters or text on the screen.

The semicolons next to CHR\$(6) and CTRL-F are extremely important. They indicate to the expander that the next suitable characters it finds in a PRINT string are to be treated as sound. Careful use of semicolons will mean that the SID chip needs only to be activated once in a program.

PRINTing CHR\$(6) or CTRL-F a second time will shut the SID off; and, of course, there's no need for semicolons when the synthesizer is not active.

Here's an example which illustrates what we've seen so far:

PRINT CHR\$(6);:PRINT"CDEFGABC":PRINT CHR\$(6)

This will play a familiar scale, and can be entered in program or direct mode. If you try it without the semicolon, you'll immediately see why the punctuation must be used.

Programming sound with the Super Expander 64 is straightforward and a rewarding experience, far less complex than programming sound with Simons' BASIC.



Figure 2

Sprite Programming

The expander offers six keywords for creating sprites. These give complete but simple control over sprite programming. You can specify color, size, and priority, and detect and respond to sprite collisions easily. As usual, there is a string variable system for saving and transferring sprite information. About the only limitation on expander sprites is that they can't be used on a normal text screen.

One of the sprite keywords, SPRDEF, is a good sprite editing program which is built right into the expander. This keyword allows you to define all eight available sprites and put them into memory. You can even define many more than eight sprites and transfer them into strings for later use, filling up your 64 with hundreds of sprite definitions if you want to. And you can use SPRDEF in direct mode to define your sprites before you even start programming.

There is one drawback, though. SPRDEF offers no way to save the sprites it creates so easily. Since a sprite definition is a series of 63 numbers, there's no reason we can't save those numbers. Here's a short program that will display the 63 numbers making up a sprite designed by SPRDEF.

- 5 SN=Ø:REM SN (SPRITE NO.) MUST BE THE NO. YOU ENTER IN SPRDEF MODE.
- 1Ø SPRDEF
- 20 SPRSAVSN, A\$
- 30 PRINT "{CLR}"
- 4Ø FORI=1TO61STEP3
- 50 N\$=MID\$(A\$,I,1):X=ASC(N\$):PRINTX,
- 52 O\$=MID\$(A\$,I+1,1):Y=ASC(O\$):PRINTY,
- 54 P\$=MID\$(A\$,I+2,1):Z=ASC(P\$):PRINTZ
- 60 NEXT

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To use this program, just type it in while the expander is in your computer. Then RUN it. When SPRDEF prompts you, type in 0 (see line 5 of the program). When you're happy with your sprite, press SHIFT RETURN to save it, and then press RETURN to go on with the program. Almost immediately, you'll see the 63 bytes of sprite data appear on your screen. (These numbers are arranged in a format that corresponds to the shape of the sprite.) If you wish, you can copy this information down and use it later. You can rerun this program as many times as you like, but always enter 0 when SPRDEF prompts you.

Once you have the numbers making up a sprite, they can be read back into the machine quite easily. This program shows how this can be done.

- 5 SN=Ø:TH\$=CHR\$(Ø) 10 FORI=1T063 15 READN 20 TH\$=TH\$+CHR\$(N) 30 NEXT 40 A\$=RIGHT\$(TH\$,63) 50 SPRSAVA\$,SN
- 6Ø SPRDEF

Sixty-three numbers from your own sprite definition can be appended (starting after line 60)

in the form of DATA statements. When RUN, the program will transfer your design into A\$ and then into sprite number zero. You'll then return to the SPRDEF mode. Once again, enter 0 and you'll see the sprite you designed.

These two programs could be used repeatedly, by changing sprite numbers and destination strings, to load a large number of sprites into a 64 with the expander inserted, obviously a timeconsuming and cumbersome process. The programs are mainly given to show that it is possible to extract sprite data from the *Super Expander 64* environment.

The sprite commands and functions can be combined with the other expander keywords in various creative ways. Figure 2 is typical of results that can be easily achieved.

The *Super Expander 64* is a powerful device which frees the programmer from much of the tedium of creating sound and graphics on the 64. Although it invites comparison with *Simons' BASIC*, neither is really competing with the other.

Simons' BASIC performs well in a wide variety of situations, and the Super Expander 64 is specialized in focus. But if your interest is in sound and graphics, the Super Expander 64 may be a shortcut to some effective programming.



Function Key

Willie Brown

The function keys can be extremely useful if you know how to program them. This short utility program for the VIC and 64 allows you to define each function key and save your newly defined keyboard to tape or disk.

Turn your computer on, type some letters, and you'll see them appear on the screen. But press one of the function keys and you'll see nothing. They are mentioned almost in passing in a short paragraph in the User's Guide, which says they can be programmed to perform many different functions. The question is, how do you program them?

The most common method of using the function keys is to set up a GET statement followed by an IF-THEN. The keys can be used in a program to start a game, change the border color, or almost any other function you can think of, as long as you type them in quote mode.

It would be nice, though, if they could be used outside of a program, in direct (or immediate) mode. You might want f1 to LIST the program, f3 to RUN it, f5 to SAVE, and so on—a collection of eight one-stroke commands.

"Function Key" lets you decide how you want to define the keys and use them.

Defining New Functions

After entering the program and SAVEing it, type RUN. A short machine language program is then POKEd into memory. To turn it on, type SYS 52115 (64 version). The entry point for the VIC version will vary depending on how much additional memory you are using; the appropriate SYS number will appear on the screen.

The program is now activated. To assign a value to one of the function keys, type fx=(BASIC command), where x is a number from one to eight and any legal BASIC statement follows the equal sign. Press RETURN and the computer should respond with OK. If you get a SYNTAX ERROR, check the logic of the BASIC line. For example, f1=LIST defines the f1 key as LIST. Any time you type f1, LIST will be printed on the screen. Of course, LIST won't be activated until you press RETURN. To simulate this, add a left arrow (the key directly above CTRL): f1=LIST+.

You can define all eight function keys with whatever commands you find most useful. But here are a few items to be noted. First, each key is limited to a maximum of 16 characters. If you exceed the limit, the extra letters will be ignored. Second, if you want a BASIC command to be executed, the last character has to be a left arrow. RUN/STOP-RESTORE resets the computer and will eliminate the function key definitions. Simply use the appropriate SYS to return to "Function Key." Finally, this utility is disabled whenever you run a program. It will work only in immediate mode. This allows you to use the function keys from within your program and still have your favorite commands available with one keystroke while editing the program.

Note that "Function Key" will not work with other programming utilities which use the same locations in memory (in the 64 version, locations 52115 and up).

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Creating A Mini-Toolkit

It would be tedious to have to define all eight function keys every time you want to use this utility. You can create your own mini-toolkit with an f9 option, which allows you to save your function key definitions to tape or disk. You can then load your selected functions into memory at the beginning of a programming session.

When you have all the keys defined and want to keep them for future use, type f9=filename,8 (for disk) or f9=filename,1 (for tape), where *filename* is anything of your choice. But don't put *filename* in quotes. If you want to save another set of function definitions, be sure to use a different filename.

To load the functions back into memory, type LOAD"filename",8,1 for disk or LOAD "filename",1,1 for tape. The secondary address of 1 is crucial: It tells the computer to load the program into the same area of memory it originally occupied. After the program is loaded, type NEW and then the appropriate SYS. The eight functions you previously saved will be available for use whenever you need them.

See program listing on page 192.





DISK AUTO LOAD FOR THE 64

Dan Carmichael, Assistant Editor

Have you ever wanted to type LOAD"*",8,1 and have your favorite program automatically load and run itself like commercial software packages do? "Disk Auto Load" for the 64 will create a program to do just that.

When using commercial programs, you've probably noticed that most automatically load and start the program running without having to enter RUN. The first program loaded into memory is known as a *boot program*. It's this program that loads and executes other programs on the disk.

There are a number of different techniques that can accomplish this, such as overwriting the stack or changing *vectors*. (A vector is a pointer to the starting location of a machine language subroutine.) "Disk Auto Load" uses the latter method.

Manipulating The Vectors

In the Commodore 64, there is an area of unused memory from locations 679 to 767 (\$02A7-\$02FF). Like the cassette buffer, this 89-byte area is perfect for holding small machine language programs.

Just past this area of memory is a table of important vectors. In the 64, these vectors are two bytes each, using the low-byte/high-byte format. By changing the values of these pointers, you can redirect the system to your own programs.

The vector we'll be using for Disk Auto Load is the *BASIC Warm Start Vector* at 770–771 (\$0302–\$0303), which points to the main BASIC program loop. This one loop is executed more often than any other routine of BASIC. It checks the keyboard again and again, waiting for input. When a key is pressed, the character is printed on the screen. Pressing RETURN sends this routine into action. It looks at the beginning of the line for a number. If it finds one, it assumes you're writing a program and enters it as a BASIC line. When no line number is found, it executes the statement in immediate mode. After executing the program (or the statement, if there's no number), the computer goes back to the main BASIC program loop, waiting patiently for more from the keyboard.

This vector is also used when loading a program. After a program is loaded into the computer, the system returns to the BASIC program mode by looking at this pointer and going to the BASIC warm start program at 42115 (\$A483).

By changing the values in this vector, the computer can be directed to execute a machine language program other than the usual BASIC warm start. In Disk Auto Load, the pointer value is changed by loading a program (which includes the new pointer values) on top of it.

Disk Auto Load puts the automatic boot program into the area from 679–750 (\$02A7–\$02EE). Before the boot program is saved, the warm start vector is changed to point to the start of the autoboot program at 679 (\$02A7). Then the program and the pointer (locations 679–771,

\$02A7-\$0303) are saved to disk as one module. This becomes our autoboot program. Here's how it works:

The autoboot program (along with the vector with the changed values) is loaded into memory. If it's the first program in the disk's directory, it can be loaded with the LOAD "*",8,1 format. After the LOAD is finished, the computer looks at the BASIC warm start vector. Because the vector now points to the start of the autoboot program (location 679), that program is executed instead of the normal BASIC warm start routine. The autoboot program, in turn, loads in and executes the program you have specified.

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A Newly Created Program

Enter, save, and run Disk Auto Load. It's a BASIC program which POKEs a machine language program into memory. The machine language program creates the autoboot program, and then saves it to disk.

If you wish to autoboot a program using the LOAD "*",8,1 syntax, format a new disk and don't save any files on it until after you've created the autoboot program. This will ensure that the autoboot program is the first entry in the disk directory.

The first prompt asks if the program you want to be automatically loaded and run is in BASIC or machine language. Press B or M. If you press M for machine language, you are asked to supply the beginning address of the ML program. This is the SYS address that starts the ML program running. Enter a number, then press RETURN.

Next, enter the name of the program you want to be automatically loaded. The program then instructs you to insert a newly formatted disk into the drive. Actually, the disk needs to be freshly formatted only if you wish to use the LOAD "*",8,1 syntax. Saving the autoboot program to a disk that contains other files is fine.

Enter the name you wish to give to the autoboot program you will be creating. For future reference, you might want to indicate in the filename that it's a boot program. For example, if you want to automatically load and run SPACEGAME, you could name the autoboot program SPACEGAME.BOOT.

After Disk Auto Load has run and created the autoboot program on the disk, turn off your 64 to reset the system. Be sure to then save a copy of the program you wish to have loaded and run on the same disk as the autoboot program. (It can't load and run a program that isn't there.) Be sure that you save the program with the same filename you told the autoboot program to look for.

To use the autoboot program, type LOAD "filename",8,1 where filename is the name of the autoboot program you created, not the name of the program that autoboot is to load and run. For example, typing LOAD "SPACEGAME.BOOT",8,1 will automatically load and run "SPACEGAME". If everything is in order, the program you specified will automatically run.

If you wish to load and run more than one program, you can write your own boot program. Have Disk Auto Load load and run your program, and it, in turn, will load any programs you want.

See program listing on page 193.



MILX Machine Language For Commodore 64 And VIC-20 Charles Brannon, Program Editor

MLX is a labor-saving utility that allows almost failsafe entry of machine language programs published in COMPUTE!'s GAZETTE. You need to know nothing about machine language to use MLX—it was designed for everyone. There are separate versions for the Commodore 64 and expanded VIC-20 (at least 8K).

MLX is a new way to enter long machine language (ML) programs with a minimum of fuss. MLX lets you enter the numbers from a special list that looks similar to BASIC DATA statements. It checks your typing on a line-by-line basis. It won't let you enter illegal characters when you should be typing numbers. It won't let you enter numbers greater than 255 (forbidden in ML). It won't let you enter the wrong numbers on the wrong line. In addition, MLX creates a ready-to-use tape or disk file. You can then use the LOAD command to read the program into the computer, as with any program:

LOAD "filename",1,1 (for tape) LOAD "filename",8,1 (for disk)

To start the program, you enter a SYS command that transfers control from BASIC to machine language. The starting SYS number always appears in the appropriate article.

Using MLX

Type in and save the correct version of MLX for your computer (you'll want to use it in the future). When you're ready to type in an ML program, run MLX. MLX asks you for two numbers: the starting address and the ending address. These numbers are given in the article accompanying the ML program.

You'll see a prompt corresponding to the starting address. The prompt is the current line you are entering from the listing. It increases by six each time you enter a line. That's because each line has seven numbers—six actual data numbers plus a *checksum number*. The checksum verifies that you typed the previous six numbers correctly. If you enter any of the six numbers wrong, or enter the checksum wrong, the computer rings a buzzer and prompts you to reenter the line. If you enter it correctly, a bell tone sounds and you continue to the next line.

MLX accepts only numbers as input. If you make a typing error, press the INST/DEL key; the entire number is deleted. You can press it as many times as necessary back to the start of the line. If you enter three-digit numbers as listed, the computer automatically prints the comma and goes on to accept the next number. If you enter less than three digits, you can press either the SPACE bar or RETURN key to advance to the next number. The checksum automatically appears in inverse video for emphasis.

To simplify your typing, MLX redefines part of the keyboard as a numeric keypad:

	U	I	0			7	8	9
H	J	K	L	become	0	4	5	6
	M	,				1	2	3

MLX Commands

When you finish typing an ML listing (assuming you type it all in one session) you can then save the completed program on tape or disk. Follow the screen instructions. If you get any errors while saving, you probably have a bad disk, or the disk is full, or you've made a typo when entering the MLX program itself.

You don't have to enter the whole ML program in one sitting. MLX lets you enter as much as you want, save it, and then reload the file from tape or disk later.

MLX recognizes these commands:

SHIFT-S: Save	SHIFT-N: New Address
SHIFT-L: Load	SHIFT-D: Display

When you enter a command, MLX jumps out of the line you've been typing, so we recommend you do it at a new prompt. Use the Save command to save what you've been working on. It will save on tape or disk as if you've finished, but the tape or disk won't work, of course, until you finish the typing. Remember what address you stop at. The next time you run MLX, answer all the prompts as you did before, then insert the disk or tape. When you get to the entry prompt, press SHIFT-L to reload the partly completed file into memory. Then use the New Address command to resume typing.

To use the New Address command, press SHIFT-N and enter the address where you previously stopped. The prompt will change, and you can then continue typing. Always enter a New Address that matches up with one of the line numbers in the special listing, or else the checksum won't work. The Display command lets you display a section of your typing. After you press SHIFT-D, enter two addresses within the line number range of the listing. You can abort the listing by pressing any key.

What if you forgot where you stopped typing? Use the Display command to scan memory from the beginning to the end of the program. When you reach the end of your typing, the lines will contain a random pattern of numbers. When you see the end of your typing, press any key to stop the listing. Use the New Address command to continue typing from the proper location.

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See program listings on page 194.

How To Type In COMPUTE!'s GAZETTE Programs

Many of the programs which are listed in COM-PUTE's GAZETTE contain special control characters (cursor control, color keys, inverse video, etc.). To make it easy to know exactly what to type when entering one of these programs into your computer, we have established the following listing conventions.

Generally, any VIC-20 or Commodore 64 program listings will contain words within braces which spell out any special characters: {DOWN} would mean to press the cursor down key. {5 SPACES} would mean to press the space bar five times.

To indicate that a key should be *shifted* (hold down the SHIFT key while pressing the other key), the key would be underlined in our listings. For example, \underline{S} would mean to type the S key while holding the shift key. This would appear on your screen as a "heart" symbol. If you find an underlined key enclosed in braces (e.g., {10 \underline{N} }), you should type the key as many times as indicated (in our example, you would enter ten shifted N's).

If a key is enclosed in special brackets, ka, you should hold down the *Commodore key* while pressing the key inside the special brackets. (The Commodore key is the key in the lower left corner of the keyboard.) Again, if the key is preceded by a number, you should press the key as many times as necessary.

Rarely, you'll see a solitary letter of the alphabet enclosed in braces. These characters can be entered on the Commodore 64 by holding down the CTRL key while typing the letter in the braces. For example, {A} would indicate that you should press CTRL-A. You should never have to enter such a character on the VIC-20, but if you do, you would have to leave the quote mode (press RE-TURN and cursor back up to the position where the control character should go), press CTRL-9 (RVS ON), the letter in braces, and then CTRL-0 (RVS OFF).

About the *quote mode*: You know that you can move the cursor around the screen with the CRSR keys. Sometimes a programmer will want to move the cursor under program control. That's why you see all the {LEFT} s, {HOME}'s, and {BLU}'s in our programs. The only way the computer can tell the difference between direct and programmed cursor control is the quote mode.

Once you press the quote (the double quote, SHIFT-2), you are in the quote mode. If you type something and then try to change it by moving the cursor left, you'll only get a bunch of reversevideo lines. These are the symbols for cursor left. The only editing key that isn't programmable is the DEL key; you can still use DEL to back up and edit the line. Once you type another quote, you are out of quote mode.

You also go into quote mode when you IN-SerT spaces into a line. In any case, the easiest way to get out of quote mode is to just press RE-TURN. You'll then be out of quote mode and you can cursor up to the mistyped line and fix it.

Use the following table when entering cursor and color control keys:

CLR	SHIFT	CLR/HOME	[CYN]	CTRL 4		873	Cr	7	//
(HOME]		CLR/HOME	{PUR}	CTRL 5		883	G	8	
UP}	SHIFT	CRSR	(GRN)	CTRL 6	+	{F1}		n	
DOWN]		CRSR	{BLU}	CTRL 7		{F2}	SHIFT	n	
LEFT]	SHIFT	CRSR -	{YEL}	CTRL 8	Π	{F3}		6	<u></u>
RIGHT }		CRSR 🔶	819	C : 1	<u>.</u>	{F4}	SHIFT	63	
RVS]	CTRL	9	829	Ct 2	60	{F5}		6	
OFF}	CTRL	0	839	C 3		{F6}	SHIFT	15	///
BLK]	CTRL		843	C : 4		{F7}		67	
WHT }	CTRL	2	858	C ² 5		{F8}	SHIFT	67	
RED]	CTRL			C: 6					

The Automatic Proofreader

"The Automatic Proofreader" will help you type in program listings from COMPUTEI's Gazette without typing mistakes. It is a short error-checking program that hides itself in memory. When activated, it lets you know immediately after typing a line from a program listing if you have made a mistake. Please read these instructions carefully before typing any programs in COMPUTEI's Gazette.

Preparing The Proofreader

1. Using the listing below, type in the Proofreader. The same program works on both the VIC-20 and Commodore 64. Be very careful when entering the DATA statements don't type an l instead of a 1, an O instead of a 0, extra commas, etc.

 SAVE the Proofreader on tape or disk at least twice before running it for the first time. This is very important because the Proofreader erases this part of itself when you first type RUN.

3. After the Proofreader is SAVEd, type RUN. It will check itself for typing errors in the DATA statements and warn you if there's a mistake. Correct any errors and SAVE the corrected version. Keep a copy in a safe place — you'll need it again and again, every time you enter a program from COMPUTEI's Gazette.

4. When a correct version of the Proofreader is RUN, it activates itself. You are now ready to enter a program listing. If you press RUN/STOP-RESTORE, the Proofreader is disabled. To reactivate it, just type the command SYS 886 and press RETURN.

Using The Proofreader

All VIC and 64 listings in COMPUTE!'s Gazette now have a *checksum number* appended to the end of each line, for example ":rem 123". *Don't enter this statement when typing in a program.* It is just for your information. The rem makes the number harmless if someone does type it in. It will, however, use up memory if you enter it, and it will confuse the Proofreader, even if you entered the rest of the line correctly.

When you type in a line from a program listing and press RETURN, the Proofreader displays a number at the top of your screen. *This checksum number must match the checksum number in the printed listing*. If it doesn't, it means you typed the line differently than the way it is listed. Immediately recheck your typing. Remember, don't type the rem statement with the checksum number; it is published only so you can check it against the number which appears on your screen.

The Proofreader is not picky with spaces. It will not000notice extra spaces or missing ones. This is for your conven-892ience, since spacing is generally not important. But occasion-904ally proper spacing is important, so be extra careful with910spaces, since the Proofreader will catch practically everything916else that can go wrong.922

There's another thing to watch out for: if you enter the line by using abbreviations for commands, the checksum will not match up. But there is a way to make the Proofreader check it. After entering the line, LIST it. This eliminates the abbreviations. Then move the cursor up to the line and press RETURN. It should now match the checksum. You can check whole groups of lines this way.

Special Tape SAVE Instructions

When you're done typing a listing, you must disable the Proofreader before SAVEing the program on tape. Disable the Proofreader by pressing RUN/STOP-RESTORE (hold down the RUN/STOP key and sharply hit the RESTORE key). This procedure is not necessary for disk SAVEs, but you must disable the Proofreader this way before a tape SAVE. SAVE to tape erases the Proofreader from memory, so you'll have to LOAD and RUN it again if you want to type another listing. SAVE to disk does not erase the Proofreader.

Since the Proofreader is a machine language program stored in the cassette buffer, it will be erased during a tape SAVE or LOAD. If you intend to type in a program in more than one sitting or wish to make a safety SAVE, follow this procedure:

1. LOAD and RUN the Proofreader.

- 2. Disable it by pressing RUN/STOP-RESTORE.
- Type the following three lines in direct mode (without line numbers):

A\$="PROOFREADER.T":B\$="{10 SPACES}":FO RX=1T04:A\$=A\$+B\$:NEXTX FORX=886 TO 1018:A\$=A\$+CHR\$(PEEK(X)):N EXTX

OPEN1, 1, 1, A\$: CLOSE1

After you type the last line, you will be asked to press RECORD and PLAY. We recommend you start at the beginning of a new tape.

You now have a new version of the Proofreader (PROOFREADER.T, as renamed in the above code). Turn your computer off and on, then LOAD the program you were working on. Put the cassette containing PROOFREADER.T into the tape unit and type:

OPEN1:CLOSE1

You can now get into the Proofreader by typing SYS 886. To test this, PRINT PEEK (886) should return the number 173. If it does not, repeat the steps above, making sure that A\$ (PROOFREADER.T) contains 13 characters and that B\$ contains 10 spaces.

The new version of Automatic Proofreader will load itself into the cassette buffer whenever you type OPEN1:CLOSE1 and PROOFREADER.T is the next program on your tape. It will not disturb the contents of BASIC memory.

Automatic Proofreader For VIC And 64

- 100 PRINT"{CLR}PLEASE WAIT...":FORI=886TO 1018:READA:CK=CK+A:POKEI,A:NEXT 110 IF CK<>17539 THEN PRINT"{DOWN}YOU MAD
- 110 IF CK<>17539 THEN PRINT"{DOWN}YOU MAD E AN ERROR":PRINT"IN DATA STATEMENTS. ":END
- 120 SYS886:PRINT"[CLR][2 DOWN]PROOFREADER ACTIVATED.":NEW

886 DATA 173,036,003,201,150,208

892 DATA 001,096,141,151,003,173

898 DATA 037,003,141,152,003,169

904 DATA 150,141,036,003,169,003 910 DATA 141,037,003,169,000,133

10 DATA 141,037,003,169,000,133 16 DATA 254,096,032,087,241,133

922 DATA 251,134,252,132,253,008

928 DATA 201,013,240,017,201,032

934 DATA 240,005,024,101,254,133 940 DATA 254,165,251,166,252,164

946 DATA 253,040,096,169,013,032

952 DATA 210,255,165,214,141,251 958 DATA 003,206,251,003,169,000

964 DATA 133,216,169,019,032,210 970 DATA 255,169,018,032,210,255 976 DATA 169,058,032,210,255,166

982 DATA 254,169,000,133,254,172 988 DATA 151,003,192,087,208,006 994 DATA 032,205,189,076,235,003

1018 DATA 003

1000 DATA 032,205,221,169,032,032 1006 DATA 210,255,032,210,255,173 1012 DATA 251,003,133,214,076,173

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Supertank

(Article on page 64.)

BEFORE TYPING...

Before typing in programs, please refer to "How To Type COMPUTEI's Gazette Programs," "A Beginner's Guide To Typing In Programs," and "The Automatic Proofreader" that appear before the Program Listings.

- 10 PRINT"{CLR}{HOME}":RESTORE:V=53248:POK EV+32,0:POKEV+33,1:POKEV+17,PEEK(V+17) AND247 :rem 174
- 17 PRINTTAB(55)" {RED} {RVS} SUPERTANKI": PRI NT :rem 158
- 20 FORQ=1T04:PRINTTAB(14)"[5][N]":NEXT :rem 50
- 22 PRINTTAB(14)"[N3[RVS]£[8 SPACES][*3": PRINTTAB(14)"[RVS]£ Q Q[2 SPACES]QQQ {SPACE][*3[OFF][2 I3[8 O3[3 I3]" :rem 209
- 24 PRINTTAB(13)" [RVS] £ [2 SPACES] Q Q [3 SPACES] M[3 SPACES] [OFF] [2 U] [8 Y] [3 U]" :rem 207
- 26 PRINTTAB(13)" [RVS] [3 SPACES]QQQ [2 SPACES]QQQ[2 SPACES] [OFF]" :rem 79
- 28 PRINT" [3 SPACES] [RVS] £ [30 SPACES] [*] {OFF}" :rem 103
- 30 PRINT"{2 SPACES}{RVS} £[32 SPACES} [*] {OFF}" :rem 96

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32	
	{OFF} {GRN} [3 +]" :rem 236
34	PRINT "E3 +3E53M W(RVS) £ E*3(OFF)W
	$\{RVS\} {{}{}{}{}{}{}{\underset$
	{GRN} { 4 +]" :rem 255
36	
50	[SPACE] [OFF] [RVS] Q [OFF] [RVS] Q
	(OFF) (RVS) Q (OFF) (RVS) Q (OFF)
	{RVS} Q {OFF]N{GRN} [5 +]" :rem 148
38	PRINT "K5 + 3 K5 3 MK* 3 (RVS) {OFF} £WK*3
	[RVS] [OFF] £WE*] [RVS] [OFF] £WE*]
	<pre>[RVS] [OFF] £WE*3 [RVS] [OFF] £WE*3 [RVS] [OFF] £WE*3 [RVS] [OFF] £WE*3</pre>
	[RVS] {OFF] £WE*] [RVS] {OFF} £[GRN]
	E6 +3" :rem 31
40	
	:rem 239
42	
	GOSUB800 :rem 127
48	
Ea	:rem 14 PRINT"{CLR}{HOME}{WHT}":POKEV+32,1:POK
50	EV+33,0:PRINTTAB(120) :rem 187
52	
60	
	ANK SPECIFICATIONS" :rem 192
62	
	<pre>{3 SPACES}{RVS}{YEL} MEDIUM {OFF}</pre>
	<pre>{2 SPACES}{RVS}{WHT} WEAK {OFF}"</pre>
	:rem 65
64	PRINTTAB(40)"[GRN] [RVS]1.TIGER[OFF]
	[4 SPACES]ARMOR[5 SPACES][YEL]FIRE
	(5 SPACES) [WHT] SPEED" :rem 30
66	PRINTTAB(40)" {YEL} {RVS}2.T-34 {OFF} {5 SPACES} {GRN}SPEED {5 SPACES} {YEL}ARM
	OR[4 SPACES][WHT]FIRE" :rem 44
68	
100	{2 SPACES} [GRN] FIRE [6 SPACES] [YEL] SPEE
	D[4 SPACES] [WHT] ARMOR": PRINTTAB(120)
-	:rem 62
70	PRINT: INPUT" [HOME] [15 DOWN] [3 SPACES]W
	HICH TANK DO YOU CHOOSE"; TA :rem 214
72	IFTA<1ORTA>3THEN8Ø :rem 56
78	
	FORQ=1T0500STEP.5:NEXT:GOT085 :rem 10
80	PRINT" [HOME] [15 DOWN] [10 SPACES] YOU CA
	N'T DO THATI [4 SPACES]":GOSUB1300:GOTO 70 :rem 210
85	
90	
	,1 :rem 56
92	PRINTTAB(7)" [RVS] [5] £[*] [OFF]
1000	<pre>[4 SPACES] [RVS] £ [OFF] [7 SPACES]</pre>
	[RVS] £E*3[OFF] [4 SPACES] [RVS] £E*3
	[OFF][4 SPACES][RVS][BLK]SCORE" :rem 1
94	
	<pre>[2 SPACES] (RVS] £ [2 SPACES] {OFF}</pre>
10	[3 SPACES] [RVS] \overline{E} [2 SPACES] [*] [OFF]
	$\{5 \text{ SPACES}\}$ $\{RVS\}$ $\overline{\pounds}$ $\{2 \text{ SPACES}\}$ $\{\delta FF\}$ $\{2 \text{ SPACES}\}$ $\{RVS\}$ $\overline{\pounds}$ $\{2 \text{ SPACES}\}$ $\{\delta FF\}$
	{2 SPACES} [BLK]"; SC :rem 52
96	
	{3 SPACES} [*] (OFF) {2 SPACES} [RVS]
	[4 SPACES] [*] [OFF] [2 SPACES] [RVS] £
	<pre>[5 SPACES]{OFF} {RVS}£{4 SPACES}E*]</pre>
	{OFF}{2 SPACES}{RVS}{BLK}ARMOR"
	:rem 171
98	PRINT"(RVS) [5] £[9 SPACES] [*] £
	[5 SPACES] & 3£[6 SPACES] £[6 SPACES]
	<pre>[*]{OFF}{BLK}";AR :rem 29</pre>

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XT :rem 64 110 PRINT" [RVS] [5] [Q]CCCCCCCC[W] [RIGHT] £{13 SPACES} [*] [RIGHT] [Q]CCCCCCCCC EW3" :rem 65 112 PRINT" [RVS] [5] [0]CCCCCCCC[W] {17 SPACES } & Q CCCCCCCEW]" :rem 129 :rem 172 114 GOSUB420 120 CB=1:TI\$="000000" :rem 34 150 POKEV+21, 15: POKE2040, 13: POKEV+39, 0: PO KEV, 170: POKEV+1, 150: Y=170: X=150: SH=0 :rem 27 151 POKE2042, 193: POKEV+41, 11: RF=0: UT=110: :rem 206 POKEV+42,0:POKE2043,195 152 POKE2041, 14: POKEV+40, 0: POKEV+2, X1: POK :rem 109 EV+3, Y1 180 S=NOTPEEK(56321)AND15:U=SAND1:D=SAND2 :L=SAND4:R=SAND8:Y1=0:X1=0 :rem 165 182 POKEV+23, Ø: POKEV+29, Ø :rem 189 185 IFUTHENX=X-M1:IFX<110THENX=X+M1 :rem 253 187 IFDTHENX=X+M1:IFX>180THENX=X-M1 :rem 247 189 IFRTHENY=Y+M1:IFY>245THENY=Y-M1 :rem 14 191 IFLTHENY=Y-M1:IFY<90THENY=Y+M1 :rem 205 :rem 59 200 POKEV, Y: POKEV+1, X J=NOTPEEK(56321)AND16:IFJ=16THENGOSUB 210 :rem 189 245 :rem 220 BO=BO+.5:GOSUB310:GOTO180 230 245 SH=SH+1:X1=X:MR=Y:HH=Y/2:GOSUB400 :rem 64 247 FORDD=DDTOHHSTEP5:POKEV+2,DD:POKEV+3, X1:GOSUB330:NEXT :rem 224 POKE2041, 15: FORDD=DDTOMRSTEP5: POKEV+2 250 DD:POKEV+3,X]:GOSUB330:NEXT :rem 171 IF(PEEK(V+30)AND4)>0THENIF(PEEK(V+30) 251 :rem 110 AND4)>ØTHENGOSUB253 X1=0:DD=0:Y1=0:POKEV+2,X1:POKEV+3,MR: 252 :rem 131 POKE2041,14:RETURN 253 POKE2041, 192: POKEV+23, 2: POKEV+29, 2 :rem 184 254 POKEV+3, X1-10: POKEV+2, DD-12: GOSUB410: :rem 204 GOSUB495 258 FORRE=1T0500:NEXT:POKEV+23,0:POKEV+29 :rem 152 ,Ø 260 X1=0:DD=0:Y1=0:POKEV+2,X1:POKEV+3,MR: :rem 130 POKE2Ø41,14:RETURN 310 RF=RF+5: IFRF>215THEN350 :rem 95 315 POKEV+4, RF: POKEV+5, UT: RETURN :rem 79 330 RF=RF+1.8:IFRF>215THENRF=0 :rem 48 333 IFRF=ØTHEN34Ø :rem 243 POKEV+4, RF: POKEV+5, UT: RETURN :rem 81 335 RF=0:UT=110:RS=INT(RND(0)*60):UT=UT+R 340 S:GOTO33Ø :rem 61 F1=RF:F2=UT:POKE2042,194:POKEV+6,F1:P 350 :rem 77 OKEV+7, F2:GOSUB400 355 FORQ=F2TO15ØSTEP.4:POKEV+7,Q:NEXT:POK EV+29,8:POKEV+23,8:POKEV+6,F1-12 :rem 55 360 F2=150:FORO=F2TO230STEP.6:POKEV+7,Q:N :rem 73 EXT:GOSUB410 POKEV+6, Ø: POKEV+7, Ø: POKEV+4, Ø: POKEV+5 39Ø ,0:RF=0:POKEV+23,0:POKEV+29,0:rem 235 POKE2042,193:GOTO499 :rem 118 391 S=54272:FORL=STOS+24:POKEL,Ø:NEXT:POK 400 ES+5,9:POKES+6,16:POKES+24,15 :rem 70 POKES+4, 129: POKES+1, 34: POKES, 75: RETUR 405 :rem 91 N

100 FORQ=1T017:PRINT" [RVS] [GRN] [39 +]":NE

508 PRINT" [RVS] [5] £ [9 SPACES] [*] £ [5 SPACES] [*] £[6 SPACES] £[6 SPACES] E*3 (OFF) (BLK) ;AR 509 IFAR=0THEN549 RETURN 51Ø 549 LL=18:BL=12:BB=15 550 PRINT" [HOME]": POKEV+32, 0: POKEV+33, 1 M":NEXT M" 2)"M" C(4)"M" 563 PRINTTAB(5)"M"SPC(21)"N"SPC(3)"NM" (3)"N"SPC(2)^TM" PRINTTAB(7)"M"SPC(4)"N"SPC(2) 565 Ø)"M"SPC(2)"N"SPC(4)"M" 566 Ø)"MN"SPC(6)"M" 567 PRINTTAB(9)"MN"SPC(6)"M"SPC(17)"N" T L=BL-1:BB=BB+2:NEXT 1,0:GOSUB420:FORQ=1TO500STEP.1:NEXT **UB1200** : IFSC>HSTHENHS=SC :rem 174 410 S=54272:FORL=STOS+24:POKEL,0:NEXT:POK

ES+5,11:POKES+6,16:POKES+24,15 :rem 112 415 POKES+4, 129: POKES+1, 54: POKES, 111: RETU •rem 133 RN 420 S=54272:FORL=STOS+24:POKEL,0:NEXT:POK ES+5,11:POKES+6,56:POKES+24,15 :rem 117 425 POKES+4,129:POKES+1,51:POKES,97:RETUR :rem 96 N 495 SC=SC+10:CB=0:RN=INT(RND(0)*15):CB=CB +RN:GOTO500 :rem 95 :rem 103 499 AR=AR-1 500 V=53248:PRINT" [HOME]": POKEV+32, 0:POKE :rem 248 V+33,CB 501 RF=0:UT=110:RS=INT(RND(0)*60):UT=UT+R S:RF=RF+1.5: :rem 211 502 PRINTTAB(7)" [RVS] [5] £[*] [OFF] {4 SPACES | [RVS] £ [OFF] [7 SPACES] [RVS] £ [*] [OFF] [4 SPACES] [RVS] £ [*] [OFF][4 SPACES] [RVS] [BLK] SCORE" :rem 45 504 PRINT" {2 SPACES } [RVS] [5] £[*] [OFF] [2 SPACES] [RVS] £ [2 SPACES] {OFF} [3 SPACES]{RVS}£[2 SPACES][*][OFF] [5 SPACES] [RVS] £[2 SPACES] [*] [OFF] [2 SPACES] [RVS] £ [2 SPACES] [*] [OFF] {2 SPACES } {BLK}"; SC :rem 96 506 PRINT" [RVS] [5] £[2 SPACES] [*] £ [3 SPACES] [*] [OFF] [2 SPACES] [RVS] [4 SPACES] [*][OFF] [2 SPACES] [RVS] £ {5 SPACES}{OFF} {RVS}_{4 SPACES} ** [OFF] [2 SPACES] [RVS] [BLK] ARMOR :rem 215 :rem 73 :rem 254 :rem 118 :rem 169 :rem 214 558 FORQ=5TO7:PRINTTAB(Q)"{BLK}M"SPC(10)" :rem 41 560 PRINTTAB(7)" [BLK]N"SPC(11)"M"SPC(4)"N :rem 29 561 PRINTTAB(6)"N"SPC(13)"M"SPC(2)"N"SPC(:rem 58 562 PRINTTAB(5)" [BLK]N"SPC(15)" [BLK]MN"SP :rem 177 :rem 142 564 PRINTTAB(6)"M"SPC(6)"NM"SPC(11)"N"SPC :rem 136 "M"SPC(1 :rem 52 PRINTTAB(8)"M"SPC(2)"N"SPC(4)"M"SPC(1 :rem 139 :rem 158 568 PRINTTAB(18)"M"SPC(15)"N":FORLB=1T06: PRINTTAB(LL)"N"SPC(14)"N":LL=LL-1:NEX :rem 6Ø 570 FORQ=1T05:PRINTTAB(BL)"N"SPC(BB)"M":B :rem 187 58Ø RESTORE: POKEV+23, Ø: POKEV+29, Ø: POKEV+2 :rem 66 585 S=54272:FORL=STOS+24:POKEL,Ø:NEXT:GOS :rem 193 588 V=53248: BO=BO/10:XX=INT(BO):SC=SC+XX

589	PRINT" [HOME] [CLR] ": POKEV+32, Ø: POKEV+3
	3,1:POKE53281,1 :rem 62
590	PRINTTAB(85)" [RVS] [2] B*O*N*U*S ";XX;S
	PC(3)" [RVS] SHOTS FIRED"; SH: PRINTTAB(4
	5)"{RVS}YOUR"; :rem 201
591	PRINT" SCORE"; SC; SPC(3)" [RVS] HIGH SCO
	RE ";HS: PRINTTAB(49)" [RVS]YOUR RANK I
	S (BLK)"; B\$:rem 36
592	PRINTTAB(43)"{RVS} 23YOUR TOTAL SURVI
502	VING TIME ";TI\$:rem 114 PRINTTAB(86)" {RVS}WANT TO PLAY AGAIN?
593	
FOF	· · · · · · · · · · · · · · · · · · ·
595	
596 597	SC=0:B\$="":IFC\$="Y"THEN599 :rem 168 IFC\$="N"THENSYS64738 :rem 164
598	C\$="":GOTO595 :rem 164
599	SH=0:SC=0:BO=0:XX=0:POKEV+32,1:POKEV+
399	33,0:GOTO60 :rem 172
800	S=54272:FORL=STOS+24:POKEL, Ø:NEXT:POK
000	ES+5,9:POKES+6,0:POKES+24,15 :rem 19
8Ø1	READHF, LF, DR: IFHF=-1THENRETURN
001	rem 196
001	POKES+1, HF: POKES, LF: POKES+4, 33: FORT=1
004	
010	TODR:NEXT:POKES+4, 32:GOTO801 :rem 168
810	DATA18,209,1024,15,210,512,18,209,512
	,16,195,1024,14,24,512,11,48,512
011	:rem 45
811	DATA18,209,200,16,195,200,15,210,200, 14,24,200,15,210,512,22,96,512
912	:rem 178 DATA16,195,1024,11,48,1024,15,210,512
012	,14,24,200,12,143,200,11,48,200
	,14,24,200,12,143,200,11,48,200 :rem 222
813	
015	1,48,512,16,195,512,14,239,512
	:rem 185
814	DATA11,48,512,15,210,200,15,210,200,1
	4,24,200,12,143,200,11,48,200:rem 105
815	DATA10,143,200,11,48,200,12,143,200,1
010	1,48,512,16,195,1024,22,96,512
	:rem 186
816	
	,16,195,1024,14,24,512,11,48,512
	:rem 51
817	
	14,24,200,15,210,512,22,96,512
	:rem 184
818	
	,14,24,200,12,143,200,11,48,200
	:rem 228
819	
	DATA10,143,200,11,48,200,12,143,200,1
	DATA10,143,200,11,48,200,12,143,200,1 1,48,512,16,195,512,14,239,512
	DATA10,143,200,11,48,200,12,143,200,1 1,48,512,16,195,512,14,239,512 :rem 191
820	1,48,512,16,195,512,14,239,512 :rem 191
82Ø	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1
82Ø 821	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102
	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1
	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210
821	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1
821	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128
821 9ØØ	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1,128,24,1 :rem 35
821 9ØØ	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1
821 9ØØ 9Ø5	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1,128,24,1 :rem 35 DATA128,24,1,128,36,1,128,66,1,255,12 9,255,128,66,1,128,36,1,128,24,1,128 :rem 1
821 9ØØ 9Ø5	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1,128,24,1 :rem 35 DATA128,24,1,128,36,1,128,66,1,255,12 9,255,128,66,1,128,36,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,128,24,1,128,24,1,1
821 900 905 910	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1,128,24,1 :rem 35 DATA128,24,1,128,36,1,128,66,1,255,12 9,255,128,66,1,128,36,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,128,24,1,128,24,1,1 28,24,1,128,24,1,255,255,255 :rem 93
821 900 905 910	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1,128,24,1 :rem 35 DATA128,24,1,128,36,1,128,66,1,255,12 9,255,128,66,1,128,36,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,128,24,1,128,24,1,1 28,24,1,128,24,1,255,255,255 :rem 93 DATA0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
821 900 905 910	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1,128,24,1 :rem 35 DATA128,24,1,128,36,1,128,66,1,255,12 9,255,128,66,1,128,36,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,128,24,1,128,24,1,1 28,24,1,128,24,1,255,255,255 :rem 93
821 900 905 910 915	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1,128,24,1 :rem 35 DATA128,24,1,128,36,1,128,66,1,255,12 9,255,128,66,1,128,36,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,128,24,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,255,255,255 :rem 93 DATA0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
821 900 905 910 915	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1,128,24,1 :rem 35 DATA128,24,1,128,36,1,128,66,1,255,12 9,255,128,66,1,128,36,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,128,24,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,255,255,255 :rem 93 DATA0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
821 900 905 910 915	1,48,512,16,195,512,14,239,512 :rem 191 DATA11,48,512,15,210,200,15,210,200,1 4,24,200,12,143,200,11,48,200:rem 102 DATA10,143,200,11,48,200,12,143,200,1 1,48,512,11,48,1024,-1,0,0 :rem 210 DATA255,255,255,128,24,1,128,24,1,128 ,24,1,128,24,1,128,24,1,128,24,1 :rem 35 DATA128,24,1,128,36,1,128,66,1,255,12 9,255,128,66,1,128,36,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,128,24,1,128,24,1,128 :rem 1 DATA24,1,128,24,1,255,255,255 :rem 93 DATA0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

925				0,0,0,0,0,0	rem 109
000	0,0,			aaaaa	
926				0,0,0,0,0,0,0,0 0,0,103,252,0	
	,0,0	,0,0	,03,240	,0,105,252,1	:rem 66
927	DATTA	0.21	9.255.1	92,195,255,6	
221	.63.	240.	0.0.0.0	,0,0,0,0,0,0	0.0.0.0.0.0
					:rem 207
928	DATA	0,0,	0,0,0,0	1,0,0	:rem 113
930	DATA	0,0,	2,34,12	28,4,0,64,2,	146,128,16,
	0,16	,10,	73,32,6	54,0,4,17,14	0,96,64,0,4
					:rem 2
935				1,0,4,8,136,	
	17,1	7,16	, 32, 0,8	3,8,136,128,	
	2				:rem 80
940			4,0,64		:rem 184
945				,0,0,0,0,0,0	
		,0,6	4,0,0,6	54,0,0,126,0	
~	Ø				:rem 221
947				5,252,127,2	
	255,	255,	100,08	70,37,85,84	
95Ø	השמת	15 2	55 240	0,0,0,0,0,0	:rem 243
550	DAIA	13,2	.55,240	0,0,0,0,0,0,0	:rem 228
955				,0,2,0,0,2,1	
	70,0	,0,1	86,0,0,	130,0,0,254	
-					:rem 128
96Ø				,255,192,0,	
	7,22	4,8,	186,32,	15,187,224,8	
					:rem 52
965				,0,0,0,0,0,0	
97Ø				0,0,0,0,0,0,0	
	,0,0	,00,	0,0,120	5,0,0,255,0,0	:rem 41
975	משמח	126	a a ca	0,0,0,0,0,0	
515				,0,0,0,0,0,0	
				1010101010101	:rem 178
1000	FOR	A1=8	3270894	:READQ1 : POKI	
					:rem 22
1010	FOR	12-0	OGMODEC	- BEADO2 - DOVI	

1010 FORA2=896TO958:READQ2:POKEA2,Q2:NEXT :rem 38

1015 FORA3=960TO1022:READQ3:POKEA3,Q3:NEX T :rem 70

1020 FORA4=12288T012350:READQ4:POKEA4,Q4: NEXT :rem 226 1025 FORA5=12352T012414:READQ5:POKEA5,Q5: NEXT :rem 228

 1030
 FORA6=12416T012478:READQ6:POKEA6,Q6:

 NEXT
 :rem 239

 1035
 FORA7=12480T012542:READQ7:POKEA7,Q7:

NEXT :rem 241 1090 RETURN :rem 170

1100 IFTA=1THENAR=5:IFTA=1THENM1=1

:rem 111 1105 IFTA=2THENAR=3:IFTA=2THENM1=2 :rem 117

1110 IFTA=3THENAR=1:IFTA=3THENM1=3

:rem 114 1150 RETURN :rem 167

1200 IFSC=0THENB\$="TRAITOR" :rem 144

1201 IFSC>ØANDSC<51THENB\$="SOLDIER" :rem 138

1202 IFSC>52ANDSC<101THENB\$="SERGEANT" :rem 53

1204 IFSC>101ANDSC<201THENB\$="LIEUTENANT"

:rem 3 1206 IFSC>201ANDSC<401THENB\$="CAPTAIN" :rem 15

:rem 15 1208 IFSC>401ANDSC<601THENB\$="MAJOR" :rem 142

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1210 IFSC>601ANDSC<801THENB\$="COLONEL"

		:rem 30
1212	IFSC>801ANDSC<1001THENB\$="*	GENERAL
	{SPACE}*"	:rem 145
1214	IFSC>1001THENB\$="** MARSHAL	**"
		:rem 179
1216	RETURN	:rem 170
1232	GOTO500	:rem 150
1300	FORI=1TO1500:NEXT:RETURN	:rem 94

Jump!

(Article on page 62.)

BEFORE TYPING...

Before typing in programs, please refer to "How To Type COMPUTE!'s Gazette Programs," "A Beginner's Guide To Typing In Programs," and "The Automatic Proofreader" that appear before the Program Listings.

Program 1: Jump!—VIC Version

3 GOT02500 :rem 51 CLR:Q=7680:GOSUB1000:N=8 :POKE36879,N:S 5 1=36878:S4=36876:POKES1,15:S=Ø :rem 175 10 POKE36879, N:W=3:PRINT" {CLR}" :rem 186 A=8131:B=A:M=1:AC=1:A1=7798:A2=7801:Q2 2Ø =1000:rem 5 22 PRINT" {CLR} {HOME} {GRN} SC=";L;" {WHT} A :rem I46 {GRN}=";W;"EN=";Q2 PRINT " [HOME] [21 DOWN] [22 +] "; 25 :rem 47 FORX=8164T08185: POKEX, 99:NEXT 30 :rem 3 40 POKEB, 32: POKEA, 65: B=A :rem 161 50 C=PEEK(197):D=PEEK(653):B=A:POKES1,15 :rem 68 51 PRINT" [HOME] [23 SPACES]" :rem 74 52 Q2=Q2-2:IFQ2<=ØTHENQ2=Ø :rem 29 53 PRINT" {HOME } { PUR } SC="; L; "A="; W; "EN=";Q 2; "" :rem 221 54 IFQ2<ØTHEN48Ø :rem 178 IFC=34THENA=A+1:GOTO300 55 :rem 48 6Ø IFC=33THENA=A-1:GOTO300 :rem 45 65 IFC=32ORC=15ORC=26THENE=A-22:GOTO400 :rem 121 75 IFM>=5THEN9Ø :rem 144 K=INT(18*RND(Ø)+7727) 80 :rem 38 85 POKEK, 218: POKEK+1, 223: POKEK-1, 233 :rem 87 86 IFAC=5THENAC=1:RETURN :rem 46 87 M=5:GOTO5Ø :rem 6 90 $O=\emptyset:O=INT(64*RND(\emptyset)+1)$:rem 124 91 Z=K:M=5 :rem 69 IFK<7728THENAZ=1:GOTO200 92 :rem 150 93 IFK>7743THENAZ=-1:GOTO200 :rem 195 94 IFO<P1THENQ=K+22:GOTO105 :rem 168 96 IFO>45THENK=K+1:POKEZ, 32:POKEZ+1, 32:PO KEZ-1,32:GOT085 :rem 232 IFO>25THENK=K-1:POKEZ, 32:POKEZ+1, 32:PO 97 KEZ-1,32:GOT085 :rem 233 98 M=5 :rem 48 99 IFAC=5THENAC=1:RETURN :rem 5Ø 100 GOTO50 :rem 47 105 S=128:FORX=QT08119STEP22:QX=X+22:IFPE EK(QX) = 65THENPOKEX + 22, 42: POKE30742 + X,7:GOT05ØØ :rem 163 106 S=S+1:POKES4,S :rem 69 107 POKEX, 93:NEXT :rem 48 108 POKES4, 0:S=0:IFPEEK(QX)=90THENB=A:GOT

0500 :rem 42 109 POKEOX,93 :rem 10 110 X=QX+22:T=PEEK(X):IFT=90THENFORX=QT08 141: POKEX, 32: NEXTX: GOTO500 :rem 83 115 IFT=102THENPOKEX, 230: POKEX-22, 32 :rem 164 120 IFT=230THENPOKEX, 104: POKEX-22, 32 :rem 162 125 IFT=104THENPOKEX, 32: POKEX-22, 32:L=L-2 5:IFL<=ØTHENL=Ø :rem 192 130 IFT=32THENPOKEX, 32: POKEX-22, 32: FORF=1 TO10:NEXT:POKEX, 32:POKEX-22, 32 :rem 202 155 FORX=QTO8119STEP22:POKEX, 32:NEXT :rem 73 IFAC=5THENAC=1:RETURN 160 :rem 87 165 GOTO5Ø :rem 58 :rem 71 200 Z=K:K=K+AZ 205 POKEZ, 32: POKEZ+1, 32: POKEZ-1, 32: GOTO85 :rem 243 210 POKEK, 218: POKEK+1, 223: POKEK-1, 233 :rem 125 215 M=5:GOTO5Ø :rem 47 300 IFD<>ØANDA<8140THENA=A-22:GOTO325 :rem 185 301 AC=5:GOSUB75 :rem 176 :rem 149 302 IFA<8120THENA=A+1:GOTO75 303 IFA>8141THENA=A-1:GOTO75 :rem 157 305 G=PEEK(A+22) :rem 98 31Ø IFPEEK(A) <> 32THEN5ØØ :rem 125 IFG=32ORG=104ORG=100THENPOKEA+22,42:P 315 OKE30742+A, 7: POKEB, 32: GOTO500: rem 189 320 Q2=Q2-4:GOTO40 :rem 16 325 IFA<8098THENA=A+23:GOTO50 :rem 213 326 IFA>8120THENA=A+20:GOTO50 :rem 199 328 Q2=Q2-9:AC=1:IFPEEK(A) <> 32THEN500 :rem 149 329 POKEB, 32: POKEA, 65: B=A :rem 219 33Ø IFC=34THENA=A+24 :rem 139 331 IFC=33THENA=A+2Ø :rem 135 334 IFA<8120THENA=A+2 :rem 188 335 IFA>8141THENA=A-2 :rem 196 34Ø AC=5:GOSUB75:G=PEEK(A+22) :rem 183 345 IFPEEK(A) <> 32THEN500 :rem 133 350 IFG=320RG=1040RG=100THENPOKEA+22,42:P OKEA+30742,7:POKEB,32:GOTO500:rem 188 352 POKEB, 32: POKEA, 65: B=A :rem 215 355 GOT09Ø :rem 63 400 S=255:FORFC=ET07746STEP-22:S=S-1:POKE S4, S: POKEFC, 93:NEXTFC :rem 17Ø 402 POKES4,0 :rem 168 405 J=FC:H=PEEK(J):IFH=32THEN410 :rem 159 GOTO45Ø :rem 109 407 410 POKEJ, 93: POKEJ-0, 93 :rem 78 415 FORFC=ETO7724STEP-22:POKEFC, 32:NEXTFC :rem 85 420 GOT075 :rem 59 450 POKEK, 42: POKEK+1, 42: POKEK-1, 42 :rem 235 455 FORCR=1T0150:NEXT :rem 58 46Ø FORI=7724T07745:POKEI,32:NEXT :rem 17 465 Q2=Q2+25:L=L+50:M=1:U=U+P1:P=INT(U) :rem 45 470 IFP>25THENP=25 :rem 66 475 GOTO415 :rem 115 PRINT" [HOME] [10 DOWN] [3 RIGHT] OUT OF 48Ø [SPACE]ENERGY ||":FORX=1T02500:NEXT :rem 228 485 PRINT" {CLR}" :rem 5 500 FORI=1T0900:NEXT:POKES4,0 :rem 52 502 POKEK, 32: POKEK+1, 32: POKEK-1, 32 :rem 230 503 FORFC=QTO8119STEP22:POKEFC, 32:NEXT :rem 168 504 W=W-1:IFW>0THEN20 :rem 1 :rem 223 505 IFL<10THEN509 :rem 158 506 IFL>9ANDL<100THEN510 507 IFL>99ANDL<1000THEN511 :rem 9 508 IFL>999THEN512 :rem 40 509 PRINT" [HOME] [9 RIGHT] 0":GOTO513 :rem 195 510 PRINT" [HOME] [10 RIGHT] 0": GOTO513 :rem 216 511 PRINT" [HOME] [11 RIGHT] Ø":GOTO513 :rem 246 512 PRINT" [HOME] [12 RIGHT] Ø" :rem 8 513 PRINT" [HOME] [10 DOWN] [6 RIGHT] GAME OV ERI" :rem 76 515 FORI=1T02500:NEXT :rem 28 517 PRINT" {CLR}" :rem 1 520 B\$="BATTLE AGAIN ?" :rem 217 525 FORI=1TOLEN(B\$):PRINT"{UP}"TAB(4)LEFT \$(B\$,I) :rem 230 530 FORK=1TO125:NEXT:NEXT :rem 101 :rem 181 532 PRINT: PRINT: PRINT :rem 220 535 B1\$="(Y/N)" 54Ø FORI=1TOLEN(B1\$):PRINT"{UP}";TAB(8)LE :rem 132 FT\$(B1\$,I) 545 FORK=1T0125:NEXT:NEXT :rem 107 550 FORV=1TO10:GETA\$:NEXT :rem 65 551 GETYN\$:IFYN\$=""THEN551 :rem 37 :rem 206 555 IFYN\$="N"THENEND :rem 9 56Ø GOTO5 1000 PRINT" [CLR] DIFFICULTY LEVELS [DOWN] {18 LEFT } [18 T] [DOWN]" :rem 133 1005 PRINT" { DOWN } 1-BEGINNER" :rem 8Ø 1010 PRINT" {DOWN }2-ROOKIE" :rem 204 1015 PRINT" [DOWN] 3-PRO" :rem 250 1020 PRINT" [DOWN] 4-EXPERT" :rem 222 1025 PRINT" [DOWN] 5-RANDOM" :rem 205 1030 GETDF\$:DF=VAL(DF\$):IFDF=1THENP1=10 :rem 68 1035 IFDF=2THENP1=12 :rem 161 1040 IFDF=3THENP1=14 :rem 160 :rem 168 1045 IFDF=4THENP1=16 1050 IFDF=5THENP1=RND(0)*16 :rem 52 1055 IFDF<10RDF>5THEN1030 :rem 226 1060 RETURN :rem 167 2500 POKE36879,8:A\$="{PUR}J{3 SPACES}U [3 SPACES]M[3 SPACES]P [GRN]" :rem 129 2510 PRINT" {CLR}":FORI=1TOLEN(A\$) :rem 60 2512 FORK=1T0155:NEXT :rem 33 2515 PRINTTAB(4)"{UP}"; LEFT\$(A\$,I):NEXT :rem 185 2520 PRINT" [3 DOWN] [3 SPACES] READY TO BAT TLE?":PRINT" {2 DOWN } {8 SPACES } [RVS] Y [OFF] / [RVS]N[OFF]" :rem 43 2575 GETY\$: IFY\$=""THEN2575 :rem 249 2580 IFYS="N"THENEND :rem 176 259Ø GOTO5 :rem 62

Program 2: Jump!—64 Version

- 100 GOSUB1160
 :rem 217

 110 CLR:S=54272:LO=54296:GOSUB940:rem 180

 120 C=PEEK(197):D=PEEK(653)
 :rem 249

 125 Q\$=STR\$(Q2)+"{2 SPACES}":IFQ2<=0THENQ</td>
- \$="Ø{3 SPACES}" :rem 244 13Ø PRINT"{HOME}{GRN}{3 SPACES}SC = ";L;"
- {2 SPACES}LIVES = ";WW;"{4 SPACES}EN
 {SPACE} = ";Q\$:rem 23
- 140 IFQ2=<0THEN749 :rem 35 150 IF(C=20)AND(A+2+2*D<40)THEN280:rem 78
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160 IF(C=12)AND(A-2-2*D>-1)THEN300:rem 73 17Ø IFC=230RC=10RC=6ØTHENQ2=Q2-20:GOT053Ø :rem 241 180 BZ=AZ+INT(55*RND(0))-30:T1=SGN(BZ-AZ) :rem 150 200 IF (AZ-BZ) > (29-P1) THEN 630 :rem 70 :rem 52 210 IF BZ<300RBZ>310 THEN 180 220 IF T1=1THENA1=AZ:A2=BZ:GOTO240:rem 30 230 A1=BZ:A2=AZ :rem 101 24Ø FORI=AlTOA2STEPT1*6 :rem 172 250 IF I<256 THEN POKEV+16, PEEK(V+16)AND2 54:POKEV, I:NEXT:AZ=BZ:GOTO120:rem 231 26Ø POKEV+16, PEEK(V+16)OR1: POKEV, I-256:NE XT:AZ=BZ:GOTO120 :rem 54 27Ø M=5:GOTO12Ø :rem 94 275 REM MOVE BASE SHIP :rem 8 280 IF D<>0THEN390 :rem 226 290 A=A+2:B1=BX+16:GOTO320 :rem 213 300 IF D<>0THEN460 :rem 217 310 A=A-2:B1=BX-16 :rem 202 32Ø Q2=Q2-5:T1=SGN(B1-BX):IFT1=1THENA1=BX :rem 68 :A2=B1:GOTO34Ø 33Ø A1=B1:A2=BX :rem 6Ø 340 FORI=AlTOA2STEPT1*4 :rem 171 350 IF I<256 THEN POKEV+16, PEEK(V+16)AND2 53: POKEV+2, I:NEXT: BX=B1:GOTO370 :rem 33 36Ø POKEV+16, PEEK(V+16)OR2: POKEV+2, I-256: NEXT:BX=B1 :rem 101 370 IF PEEK(1904+A)<>32ANDPEEK(1905+A)<>3 2THEN18Ø :rem 227 38Ø W=W-1:GOSUB 733:GOTO 12Ø :rem 65 385 REM JUMP RIGHT :rem 62 390 A=A+4:FORI=BXTOBX+16STEP2:Y=Y-2 :rem 192 400 IF I<256 THEN POKEV+16, PEEK(V+16)AND2 53:POKEV+2, I:POKEV+3, Y:NEXT:GOTO420 :rem 55 410 POKEV+16, PEEK(V+16) OR2: POKEV+2, I-256: POKEV+3,Y:NEXT :rem 127 420 FORI=BX+16TOBX+32STEP2:Y=Y+2 :rem 240 430 IF I<256 THEN POKEV+16, PEEK(V+16)AND2 53: POKEV+2, I: POKEV+3, Y: NEXT: GOTO450 :rem 61 44Ø POKEV+16, PEEK(V+16)OR2: POKEV+2, I-256: POKEV+3,Y:NEXT :rem 130 BX=BX+32:IF PEEK(1904+A) <> 32ANDPEEK(1 45Ø :rem 29 905+A) <>32THEN180 455 GOSUB 731:GOTO 120 :rem 191 458 REM JUMP LEFT :rem 236 46Ø A=A-4:FORI=BXTOBX-16STEP-2:Y=Y-2 :rem 239 470 IF I<256 THEN POKEV+16, PEEK(V+16) AND2 53: POKEV+2, I: POKEV+3, Y: NEXT: GOTO490 :rem 69 480 POKEV+16, PEEK(V+16)OR2: POKEV+2, I-256: POKEV+3,Y:NEXT :rem 134 FORI=BX-16TOBX-32STEP-2:Y=Y+2 :rem 40 49Ø 500 IF I<256 THEN POKEV+16, PEEK(V+16)AND2 53:POKEV+2, I:POKEV+3, Y:NEXT:GOTO520 :rem 57 51Ø POKEV+16, PEEK(V+16)OR2: POKEV+2, I-256: :rem 128 POKEV+3, Y:NEXT 520 BX=BX-32:IF PEEK(1904+A) <> 32ANDPEEK(1 905+A) <>32THEN180 :rem 29 525 GOSUB 731:GOTO 120 :rem 189 530 A1=106:POKES+4,33 :rem 139 540 II=0:FORI=1784TO1144STEP-40:POKEI+A,A 1:POKEI+A+S, 1:POKES+1, II:II=II+3 :rem 209

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:rem 172

550 IFPEEK(V+31)=1THEN CR=1:NEXT:GOTO570

560 NEXT :rem 218 570 POKES+4,32:IF A1=32ANDCR<>1 THEN 180 :rem 198 580 IF CR=1 AND A1=32 THEN 600 :rem 219 59Ø A1=32:CR=Ø:GOTO54Ø :rem 250 600 POKEV+21,2:T1=INT((AZ-BX)/8) :rem 89 610 FORI=1104+A+T1T01104+A+T1+3:POKEI,42: :rem 178 POKEI+S, 2:NEXTI:GOSUB740 615 FORI=1104+A+T1T01104+A+T1+3:POKEI,32: POKEI+S, 2:NEXTI:CR=Ø :rem 157 620 L=L+50:Q2=Q2+45:POKEV+21,3:AZ=INT (RND (1)*200)+40:POKEV,AZ:GOTO 120 :rem 69 625 REM SHOOT AT BASE :rem 190 630 POKES+4,33:II=120:A1=106:T1=INT(AZ/8) :rem 193 -2 640 FORI=1144TO1864STEP40:POKEI+T1,A1:POK EI+S+T1,1:POKES+1,II:II=II-3 :rem 245 65Ø IF PEEK(V+31)=2THENCR=1:NEXT:GOTO67Ø :rem 175 :rem 219 66Ø NEXT 67Ø POKES+4,32:IFA1=32THEN 69Ø :rem 186 :rem 191 68Ø A1=32:GOTO 64Ø IF CR=1 THEN GOSUB731:GOTO120:rem 129 690 W=PEEK(1904+T1):IFW=102THENPOKE1904+T 71Ø :rem 179 1,230:GOTO120 715 W=PEEK(1904+T1):IFW=230THENPOKE1904+T 1,32:GOSUB740:GOTO120 :rem 223 720 W=PEEK(1944+T1):IFW=102THENPOKE1944+T 1,32:GOSUB740:GOTO120 :rem 225 73Ø GOTO 8ØØ :rem 107 731 REM BASE DESTROYED :rem 77 733 POKEV+21,1:POKE1864+A,42:POKE1865+A,4 2:POKE1864+A+S, 2:POKE1865+A+S, 2 :rem 139 734 POKES+4,129:POKES+1,90 :rem 244 735 FORI=1TO300:NEXT:POKES+4,128:IF WW=1 [SPACE] THEN 800 :rem 122 WW=WW-1:POKE1864+A,32:POKE1865+A,32:P 736 :rem 240 OKEV+31,Ø:CR=Ø 737 A=Ø:POKEV+16,PEEK(V+16)AND253:POKEV+2 :rem 67 1,3 738 FORA=ØTO32STEP2:IFPEEK(1904+A)<>102OR PEEK(1905+A) <> 102THENNEXTA :rem 65 739 BX=A*8+24:POKEV+2,BX:RETURN :rem 17Ø 74Ø POKES+4,129:POKES1,30:FORI=1TO50:NEXT :POKES+4,128:RETURN :rem 21 749 PRINT" [HOME] [10 DOWN] [12 RIGHT] OUT OF ENERGY II":FORX=1TO2500:NEXT:rem 241 750 PRINT" {CLR}" :rem Ø 760 POKES4,0 :rem 175 POKE53269, Ø: PRINT" {HOME} [10 DOWN] 800 [15 SPACES]GAME OVER" :rem 74 810 FORI=1T01500:NEXT :rem 25 820 PRINT" {CLR}" :rem 254 830 POKEV+21,0:PRINT"{CLR}":B\$=" [5 SPACES]BATTLE AGAIN ?":B1\$=" $\{3 \text{ SPACES}\}(Y/N)"$:rem 157 840 FORI=1TOLEN(B\$):PRINT"{UP}"TAB(8)LEFT \$(B\$,I) :rem 234 850 FORK=1TO125:NEXT:NEXT :rem 106 860 PRINT: PRINT: PRINT :rem 185 870 B1\$="{8 SPACES}(Y/N)" :rem 222 FORI=1TOLEN(B1\$):PRINT"{UP}"; TAB(8)LE 88Ø FT\$(B1\$,I) :rem 139 FORK=1TO125:NEXT:NEXT 89Ø :rem 110 900 FORV=1TO10:GETA\$:NEXT :rem 64 910 GETYN\$: IFYN\$=""THEN910 :rem 35 920 IFYN\$="N"THENEND :rem 202 93Ø GOTO11Ø :rem 103 PRINT" {CLR } DIFFICULTY LEVELS { DOWN } 94Ø [17 LEFT] [17 T] [DOWN]" :rem 33 950 PRINT" { DOWN } 1-BEGINNER" :rem 40 960 PRINT" [DOWN] 2-ROOKIE" :rem 169 970 PRINT" [DOWN] 3-PRO" :rem 211 980 PRINT" [DOWN] 4-EXPERT" :rem 188 990 PRINT" { DOWN } 5-RANDOM" :rem 167 995 PRINT" {2 DOWN } CHOOSE 1-5" :rem 238 1000 GETP1\$:P1=VAL(P1\$) :rem 23 1040 IFP1=5THENP1=RND(0)*6 :rem 249 1050 IFP1<loRP1>5THEN1000 :rem 200 1060 FORI=STOLO: POKEI, 0:NEXTI: POKELO, 15:P OKES+5,130:POKES+6,72 :rem 185 1070 V=53248:POKEV+21,7:POKE2040,13:POKE2 Ø41,14:POKE2Ø42,14 :rem 83 1080 POKEV+39,3 :rem 68 1090 POKE V+28,1:POKEV+37,1:POKEV+38,5:PO KEV+39,2:POKEV+40,1:POKEV+4,150 :rem 231 1100 POKE53280,0:POKE53281,0:W=3:PRINT" {CLR}" :rem 182 1110 A=0:BX=24:B=A:M=1:AC=1:A1=1232:A2=12 35:Q2=1000:CO=V:AZ=200:B1=BX:Y=205 :rem 18 1120 WW=3:FORX=1904T01983:POKEX,102:POKEX +S,5:NEXTX :rem 207 1130 FORX=1984T02023:POKEX,99:POKEX+S,1:N EXT :rem 245 1140 POKEV+16,0:POKEV,AZ:POKEV+1,60:POKEV +2, BX: POKEV+3, 205 :rem 46 115Ø RETURN :rem 167 1160 POKE53281,0:POKE53280,0:AS="{PUR}J [3 SPACES]U[3 SPACES]M[3 SPACES]P {GRN}" :rem 51 1200 RESTORE: PRINT" [CLR] [3 DOWN] [8 SPACES]J"; :rem 61 1210 FORK=0TO42:READQ:POKE832+K,Q:NEXT :rem 133 1220 PRINT" [6 SPACES]U"; : FORK=43T085: READ Q:POKE832+K,Q:NEXT :rem 95 1230 PRINT" [6 SPACES]M"; : FORK=86T0127: REA DQ:POKE832+K,Q:NEXT:PRINT" [6 SPACES] P" :rem 231 1250 PRINT" [4 DOWN] [11 SPACES] READY TO BA TTLE" :rem 177 1260 PRINT" [15 SPACES] [RVS] Y [OFF] / [RVS] N{OFF}" :rem 184 1280 GETY\$: IFY\$=""THEN1280 :rem 233 129Ø IFY\$="N"THENEND :rem 173 1300 RETURN :rem 164 1310 DATA000,000,000,000,000,000,000,000 :rem 147 1320 DATA000,000,000,000,001,085,064,006 :rem 178 1330 DATA190,144,026,190,164,085,085,085 :rem 236 1340 DATA085,085,085,080,020,005,085,085 :rem 230 1350 DATA085,085,085,085,031,235,244,007 :rem 234 1360 DATA235,208,001,085,064,005,000,080 :rem 209 1370 DATA020,000,020,080,000,005,000,000 :rem 170 1380 DATA000,000,000,000,000,000,000,254 :rem 165 1390 REM :rem 177 1400 DATA000,000,000,001,000,000,001,000 :rem 149 1410 DATA000,001,000,000,003,128,000,003 :rem 166 1420 DATA128,000,003,128,000,007,192,000 :rem 193 1430 DATA015,224,000,031,240,000,127,252 :rem 193

15Ø:NEXT:IFNO%(X)=	=235THENF	ORT
NEXT	:rem	
EQ1,.:POKEQ2,.	:rem	101
EQ1,.:POKEQ2,. LV+1)*100):LV=LV+3	1:BS=4:FO	RD=
CFwww.con		

190 PRINT" [HOME] [DOWN] [BLK] [DOWN] "LEFT\$ (T :rem 202 B\$, X)"{OFF}%{DOWN}{3 LEFT} '{RIGHT}&" :rem 204 191 FORD=1TO20:P=PEEK(197):IFP=32THEN200 :rem 207 192 NEXT:NEXT:PRINT" [HOME] [2 DOWN] "TAB (X-2)" [RVS]* [DOWN] [2 LEFT] [3 SPACES]":GO TO189 200 PO=PO+X:PO=PO+22:POKEPO-22,228:POKEPO ,34:POKEPO+C,CL 219 A\$=RIGHT\$(A\$,21)+LEFT\$(A\$,1):B\$=RIGHT \$(B\$,1)+LEFT\$(B\$,21) 220 C\$=RIGHT\$(C\$,1)+LEFT\$(C\$,21):PRINT" [HOME] [5 DOWN] "A\$; : PRINT" [2 DOWN] "B\$: PRINT" [4 DOWN] "C\$" [2 DOWN] "A\$:rem 215 226 M=M+1:IFM>SRTHENM=.:POKEPO, 32:PO=PO+2 2:ON-(PEEK(PO) <> 32)GOTO500:POKEPO, 34 227 POKEPO+C, CL:OD=PEEK(PO):ON-((OD<>34)A ND(OD<>32))GOTO500 230 P=PEEK(197):IFP<>32THEN233 231 M=.: POKES1, 200:LS=PEEK(PO+22):CM=(PEE K(C+PO+22))AND7 232 POKEPO+22, 35: POKEPO+22+C, 2: POKEPO+22, LS: POKEPO+22+C, CM: POKES1, .: GOTO219 233 IFP>18THEN219 234 ON-(P=18)GOTO350 235 ON-(P=17)GOTO300:GOTO219 300 IFPEEK(PO-1) <> 32THEN500 302 POKEPO, 32: PO=PO-1: POKEPO, 34: POKEPO+C, CL:GOTO219 350 IFPEEK(PO+1) <> 32THEN500 352 POKEPO, 32: PO=PO+1: POKEPO, 34: POKEPO+C, CL:GOTO219 500 IFPEEK(PO)>128THEN600 502 POKEV, .: POKES1, 200: POKEPO-22+C, 2 503 FORD=15TO.STEP-.5:POKEV,D 504 POKEPO-22, 219: FORS=. TO20: NEXT: POKEPO-22,214:FORS=.TO20:NEXT:NEXT:POKES1,.: POKEV,15 510 FORD=200TO150STEP-.5:POKES1-2,D:NEXT: POKES1-2,.:LF=LF-1 511 ON-(LF<=.)GOTO1200:PRINT" [RVS] [HOME] {RED} "TAB(17)LF" {BLK}": IFPEEK(PO)=34T HENPOKEPO, 32 513 POKEPO-22, 32: PRINT" [HOME] [DOWN] [BLK] [DOWN]"LEFT\$(TB\$,X)"[RVS]*[DOWN] {3 LEFT}{4 SPACES}":GOTO185 600 POKEPO, 34: POKEPO+C, .: BS=BS-1: IFBS=. TH ENSC=SC+100:GOTO700 602 SC=SC+100:POKES1-1,200:FORS=0TO200:NE XT: POKES1-1, .: PRINT" [HOME] [RIGHT] {RVS}{2 RIGHT}{RED}{2 RIGHT}"SC 603 PRINT" [HOME] [DOWN] [BLK] [DOWN] "LEFT\$ (T B\$,X)"{RVS}*{DOWN}{3 LEFT}{4 SPACES}" :GOTO185 700 PRINT" [HOME] [RVS] [5 DOWN] [3 RIGHT] BON US LEVEL"LV+1" {LEFT }X":Q1=36876:Q2=36 875: POKEV, 15 702 FORX=1TO6: POKEQ1, NO%(X): POKEQ2, NO%(X) 7Ø3 FORT=1TO] =. TO200 : N 704 NEXT: POKE 71Ø SC=SC+((I

185 PRINT" {BLK}"; : PO=7724+21

189 FORX=2TO2Ø:POKEPO+X,34:POKEPO+C,CL

:rem 178

:rem 164

:rem 91

:rem 147

:rem 233

:rem 1

:rem 5

:rem 60

:rem 47

:rem 248

:rem 39

:rem 100 :rem 233

:rem 123 :rem 133

:rem 56

:rem 226

:rem 229

:rem 215

:rem 134

:rem 231

:rem 105

:rem 57

:rem 7Ø

:rem 237

:rem 109

:rem 28

:rem 206

:rem 36

:rem 50

:rem 59

1440 DATA000,227,142,000,227,142,000,127 :rem 197 1450 DATA252,000,063,248,000,096,012,000

- 1460 DATA220,118,000,159,242,000,220,118
 - 1470 DATA000,096,012,000,063,248,000,255

Descent To Kaylon

(Article on page 66.)

BEFORE TYPING..

Before typing in programs, please refer to "How To Type COMPUTEI's Gazette Programs," "A Beginner's Guide To Typing In Programs," and "The Automatic Proofreader" that appear before the Program Listings.

Program 1: Descent To Kaylon-VIC Version

Ø POK	E56,28	: POKE52	,28:CL	R	:rem 2	25
1 POK	E36869	, 255 : POI	KE36879	9,25:PRI	INT" {BLK]
{CL	R) [RVS	{DOWN}	WELCOM	E TO THE	E PLANET	K
	ON" : GO'				:rem 2	
6 CL=	. : V=36	878 : POK	EV.15:	S1=V-1:5	SR=1	
					:rem	90
10 PR	TNT" (C	LR] [BLK	1":BS=	4	:rem 1	
					ED,Y:NEX	
		110/121			:rem 2	
22 FC	RD=1 TO	6 : READN	0%(D).	NEXT		252
		7724+21				47
31 TE	S="{PV	c]*****	******	******	****"	
51 11	ig- the				:rem	49
49 M\$	(1)-"	" . MC(2)	-"0".0	0=(LV+1	1/50	45
49 MQ	,(1)-	: [] (2)	- 9 :0	0-(10+1	:rem 1	60
-	000-100			S=1T022	:rem 1	
50 FC	JRD=1TO	J:MAS=	FORA	5=11022	:rem 1	
		D(TI)>. M\$(B):N		ENB=2	:rem 1	
			EXT			
		NAS=MAS			:rem	41
Contraction of the second	a second and the second second	NB\$=MA\$:rem	
		NC\$=MA\$:rem	53
	EXT		- 1 6		:rem 1	./3
		OME] [RE	DIERVS	SCORE	8 SPACES	
	FT"				:rem	42
99 PF	RINT" IR	VSJHIGH	19 SPA	CES LEV	EL":PRIN	IT "
(E	3LK } {RV	S}****	*****	******	****	
					:rem 2	248
100 H	PRINT"	HOME } { R	ED] [5	RIGHT []	RVS]"SC:	PF
1	INT" [HO	ME] [RVS] [RED]	"TAB(17)LF:PRIN	IT "
1	HOME] {	DOWN] [R	VS BL	K] [5 RI	GHT] "HI:	PR
1	INT" [HO	ME] [DOW	N] {RVS] { RED } "	TAB(18)I	
	L				:rem	
101 H	PRINT" {	HOME } { B	LK] [5	DOWN }"A	S; : PRINT	
	2 DOWN				:rem 1	42
103 H	PRINT" {	PUR] [DO	WN] [3	SPACES	}111	
	3 SPAC	ES] 1 1 1 {	3 SPAC	ES]	11 [BLK]"	
					:rem	79
104 H	PRINT" {	DOWN] "C	\$"{2 D	OWN] "AS	:rem 1	69
105 H	PRINT" {	GRN]111	"SPC(1	6)"1111	III"SPC	(14
)"11111	1111"SP	C(12)"	1111111	IIII (PUR	15
	RVS RP	3 (OFF) {	GRN] I "	;	:rem 1	Ø
106 1	PRINT"	GRN] I [P	UR] [RV	S}EP310	FF] [GRN]	11
					UR [RVS]	
					85,33:PC	
	8185+C,				:rem	
						-

118 POKE53280,1:POKE53281,1 :rem 241 1111111" :rem 164 125 PRINT" [HOME] [RED] [RVS] SCORE [OFF] "TAB (31)"{RVS}LEFT{OFF}":PRINT"{RVS}HIGH {OFF}"TAB(31)"{RVS}LEVEL{OFF}":rem 18 ********** :rem 245 135 PRINT" [HOME] [RED] "TAB(6) SCTAB(36) LF: P RINT" {HOME } {DOWN } "TAB (6) HITAB (36) LV+1 :rem 93 140 PRINT" [HOME] [BLK] [5 DOWN] "AS" [2 DOWN] "BS :rem 143 11111{2 SPACES}11{2 SPACES}11111 11111 1" :rem 39 150 PRINT" {BLK} {DOWN} "C\$" {2 DOWN} "A\$: E\$=" {HOME} {20 DOWN}" :rem 197 155 PRINTE\$"[4]||||"SPC(30)"|||||"; :rem 207 160 PRINT"[4]!!!!!!!!spc(20)"!!!!!!!! 1";:PRINT"[4]"D\$; :rem 24Ø 165 POKE1915,100:POKE1915+C,5:POKE1921,10 Ø:POKE1921+C,5:POKE1925,100 :rem 79 170 POKE1925+C, 5: POKE1930, 100: POKE1930+C, :rem 95 175 PRINT" {BLK}": PO=1144: X=1: D=0 :rem 201 180 X=X+1:IFX>38THEN205 :rem 114 185 POKEPO+C+X, CL: POKEPO+X, 34: PRINT" {HOME } {DOWN } {BLK } {DOWN } "LEFT\$ (TB\$, X)" {OFF}%{DOWN}{3 LEFT} '{RIGHT}&":GOSUB 360 :rem 132 190 D=D+1:P=PEEK(197):IFP=60THEN210 :rem 23 195 IFD>38THEN180 :rem 227 200 GOTO190 :rem 101 205 PRINT" [HOME] [2 DOWN] "TAB (X-1)"* [DOWN] {2 LEFT} {5 SPACES}":GOTO175 :rem 218 210 PO=PO+X: PO=PO+40: POKEPO-40, 100: POKEPO ,34:POKEPO+C,CL :rem 247 215 A\$=RIGHT\$(A\$,39)+LEFT\$(A\$,1):B\$=RIGHT $(B_{1}) + LEFT_{3}(B_{3}, 39)$:rem 19 220 C\$=RIGHT\$(C\$,1)+LEFT\$(C\$,39) :rem 185 225 PRINT" [HOME] [5 DOWN] "AS; : PRINT" 2 DOWN }"B\$; :PRINT" {4 DOWN }"C\$" {2 DOWN}"A\$:rem 193 23Ø PK=PEEK(PO):IFPK=35THEN24Ø :rem 80 235 IFPK<>34ANDPK<>32THEN295 :rem 193 24Ø M=M+1:IFM>SRTHENM=.:POKEPO,32:PO=PO+4 :rem 18 Ø:IFPEEK(PO)<>32THEN295 245 POKEPO, 34: POKEPO+C, CL: GOSUB375 :rem 134 25Ø P=PEEK(197) :rem 59 255 IFP=60THENM=.:LS=PEEK(PO+40):LC=PEEK(PO+4Ø+C)AND15:GOSUB380:GOTO215 :rem 112 :rem 229 26Ø IFP=64THEN215 :rem 134 265 ON-(P=18)GOTO285 27Ø ON-(P=1Ø)GOTO275:GOTO215 :rem 132 275 IFPEEK(PO-1) <> 32THEN295 :rem 78 280 POKEPO, 32: PO=PO-1: POKEPO, 34: POKEPO+C, CL:GOSUB375:GOTO215 :rem 6Ø 285 IFPEEK(PO+1) <> 32THEN295 :rem 77 290 POKEPO, 32: PO=PO+1: POKEPO, 34: POKEPO+C, CL:GOSUB375:GOTO215 :rem 59 295 PK=PEEK(PO):IFPK=100THEN325 :rem 136 300 IFPK=33THENPO=PO-40 :rem 155 305 POKEPO, 91: POKEPO+C, 0: POKEPO, 86: POKEPO +C,2:GOSUB365:POKESD+24,15 :rem 191 310 LF=LF-1:ON-(LF=.)GOTO430:PRINT"[HOME] [RED]"TAB(36)LF"[RED]" :rem 50

		TOI	000	:NE	XT :	PR	INT.	.10	LR	3.1	:GO	TO	31		
													:10		
100	ØØ	DAT	Α.,										:re	n	15
100		DAT	A17	0.2	55.	255	5.25	55.	25	5.2	255	.2	55,1	17	Ø
	-					-				-			rem	2	33
100	A.K	DAT	124	60	10	12 1	26	12	6	24	36			-	
TOF	14												. TOI	n	18
100	XC	DAM	A24	36	60	5 60	: 36	5 2	4	24	a		. roi		33
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100		DAT	AZ4	,00	1 1	a .	x 1	112	25	500	, 0,		rem		
101		DAT	AØ,	0,0	:0	,0,1		20,	25	5.					
101	12	DAT	A17	0.2	22	, 253	, 23	, .	25	>,,	254				
													rem		36
101	14	DAT	A85	,25	5,2	255	, 255	5,2	55	,13	27,	63	, 31		
													:re		88
101	15	DAT	A21	5.2	25	.23	.23	35.	23	1.3	235		:re	m	78
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		IBL	KJG.	AME		ER					-				
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		" { R	vs}	(SP	ACI	3) (ro i	REL	EA	SE	.13	S	PAC	ES	3.1.
		HEN	(s	PAC	E)	TO	FIH	RE"					rem		
120			NT"	RV	SI	RETI	RO-I	ROC	KE	TS			rem	1	25
120	3 4	PRI	NT"	{RV	S}	(A)	-TO	MO	VE	L	EFT				
		[6	SPA	CES	}(1)-(c	I OI	MOV	E	RIC	GHT	" :	rem	1	36
121	12	PRI	NT"	{DO	WN	} { R	VS]	[2	RI	GH'	r}F	RE	SS .	AN	Y
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121	14		E19				198	.1.	GE	TR	Ś		rem	2	41
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5 1	POF	KE53	281	.13	. P(: 2 2 0	n	13			-		01	"0
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F	IRS	\$(14	21.	POK	E5	OKE	3. P	OKE	56	.48	RIN RtN	T.R	(CL)		~
F	IR	6(14	2):	POK	E52	DKE:	B:P0	OKE	56	,48	B:C	LR			
F	IR	6(14	2):	POK	E52	2,48	3:P0	OKE	56	,48	B:C	LR	rem	1	ø4
1Ø	IR	(14 0KE5	2):	POK	E52	2,48	3:P0	OKE	56	,48	8:0	LR :	rem	1	Ø4 29
F	PO	OKE5	2): 1,Ø 14,	: PO	E52 KE	2,48 55,6	POP	KE2	56	,48	B:C	LR :	rem rem T"{	1 1 BL	Ø4 29 K}
1Ø	PO	(14 0KE5	2): 1,Ø 14,	: PO	E52 KE	2,48 55,6	POP	KE2	56	,48	B:C	LR : IN E	rem rem T"{	1 BL T"	Ø4 29 K}
10 15	PC PC LC	S(14 DKE5 DKE2 DADI	2): 1,Ø 14, NG	POK PO 12: CHA	KE! PR: RAG	2,48 55,6 INT CTE	POP	KE2	56 11	,48 ,3 PL	PR	LR : IN E	rem rem T"{ WAI	1 BL T"	Ø4 29 K} 9Ø
10 15	PC PC LC	KE5 OKE2 OADI	2): 1,Ø 14, NG 633	POK : PO 12: CHA 4, P	KE! PR: RAG	2,48 55,6 INT CTE	POP	KE2	56 11	,48 ,3 PL	PR	LR IN E	rem rem T"{ WAI :re El,	1 BL T" m PE	Ø4 29 K} 9Ø EK
10 15 20	IRS PO PO LO PO	S(14 OKE5 OKE2 DADI OKE5 L)AN	2): 1,Ø 14, NG 633 D25	POK : PO 12: CHA 4, P	E52 KE PR RAC	2,48 55,6 INT CTE K(50	8 : PO POI RS 6334	оке ке2 •••• 4) А	11 	,48 ,3 PLI 254	PREAS	LR IN E	rem T"{: WAI :re: El, rem	1 BL T" PE	Ø4 29 K} 9Ø EK 31
10 15	IRS PO PO LO PO () FO	S(14 DKE5 DADI DKE5 L)AN DRI=	2): 1,0 14, NG 633 D25 ØTO	POK :PO 12: CHA 4,P 1 511	E52 KE! PR: RAC EEI	2,48 55,6 INT CTE K(50 OKE:	B:POR POR 6334	XE2	11 ND	, 48 , 3 PLI 254 PEI	8:C :PR EAS 4:P	IN E IN E OK I+	rem T"{: WAI :re: El, rem	1 BL T" PE	Ø4 29 K} 9Ø EK 31
10 15 20	IRS PO PO LO PO () FO	S(14 DKE5 DKE2 DADI DKE5 L)AN DRI= DKE1	2): 1,0 14, NG 633 D25 ØTO +12	POK : PO 12: CHA 4, P 1 511 800	E52 KE! PR: RAC EEI : PC	2,48 55,6 INT CTE K(50 OKE: SEK	3: PO POI RS.	XE2	56 11 	,48 ,3 PLI 254 PEI	PREAS	IR IN E OK I+	rem rem T"{: WAI :re E1, rem 532 :re	1 BL T" m PE 1 48 m	Ø4 29 K} 9Ø EK 31): 47
10 15 20 25	IRS PO PO LO PO () FO	S(14 DKE5 DKE2 DADI DKE5 L)AN DRI= DKE1	2): 1,0 14, NG 633 D25 ØTO +12	POK : PO 12: CHA 4, P 1 511 800	E52 KE! PR: RAC EEI : PC	2,48 55,6 INT CTE K(50 OKE: SEK	3: PO POI RS.	XE2	56 11 	,48 ,3 PLI 254 PEI	PREAS	IR IN E OK I+	rem rem T"{: WAI :re E1, rem 532 :re	1 BL T" m PE 1 48 m	Ø4 29 K} 9Ø EK 31): 47
10 15 20 25 30	PO LO PO () FO PO	S(14 DKE5 DKE2 DADI DKE5 L)AN DRI= DKE1 DKE1	2): 1,0 14, NG 633 D25 ØTO +12 +13	POK :PO 12: CHA 4,P 1 511 800 312	E52 KE! PR: RAC EEI : PC , PI	2,48 55,6 INT CTE K(50 OKE: SEK EEK	3:PO POI RS. 5334 [+12] (I+5]	XE2 (1)A (228) (537) (542)	11 ND 8, 60	,48 ,3 PLI 254 PEI) :1	B:C PREAS 4:P EK(LR IN E NOK I+	rem rem T"{! WAI :re: E1, rem 532 :re: rem	1 BL T" PE 1 48 m 1	Ø4 29 K} 9Ø EK 31): 47
10 15 20 25 30	HRS	S(14 DKE5 DADI DKE5 DADI DKE5 DKE1 DKE1 DKE1	2): 1,0 14, NG 633 D25 ØTO +12 +13	POK :PO 12: CHA 4,P 1 511 800 312	E52 KE! PR: RAC EEI : PC , PI	2,48 55,6 INT CTE K(50 OKE: SEK EEK	3:PO POI RS. 5334 [+12] (I+5]	XE2 (1)A (228) (537) (542)	11 ND 8, 60	,48 ,3 PLI 254 PEI) :1	B:C PREAS 4:P EK(LR IN E NOK I+	rem rem T"{: WAI :re E1, rem 532 :re :rem (56)	1 BL T" m PE 1 48 m 1 33	Ø4 29 K} 9Ø EK 31): 47 47 47
F 10 15 20 25 30 35	HRS PC LC PC LC PC (1) FC PC PC PC PC PC PC	S(14 DKE5 DKE2 DADI DKE5 DADI DKE5 DKE1 DKE1 DKE1 R1	2): 1,0 14, NG 633 D25 ØTO +12 +13 , PE	POK :PO 12: CHA 4,P 1 511 800 312 EK(E52 KE! PR: RA() EEI : P() , PI , PI 1)()	2,48 55,6 INT CTE K(50 OKE SEK SEK SEK	3:PO POI RS. 5334 (1+1) (1+5 (1+5) (1+5)	XE2 4)A 228 537 542 XE5	56 111 88, 60 .72 63	,48 ,3 PLI 254 PEI)):1 34	PR EAS 4:P EK(NEX, PE	LR I I I N E E O C K I I + I T I E K	rem T"{: WAI :re 532 :re ;re ;re (56 :re	1 BL T" PE 1 48 1 33 n	Ø4 29 K} 9Ø EK 31): 47 47 47 87
10 15 20 25 30	R PC PC LC PC () FC PC PC PC PC PC PC PC PC PC PC PC PC PC	S(14 DKE5 DADI DKE5 DADI DKE5 DKE1 DKE1 DKE1	2): 1,0 14, NG 633 D25 ØTO +12 +13 , PE	POK :PO 12: CHA 4,P 1 511 800 312 EK(E52 KE! PR: RA() EEI : P() , PI , PI 1)()	2,48 55,6 INT CTE K(50 OKE SEK SEK SEK	3:PO POI RS. 5334 (1+1) (1+5 (1+5) (1+5)	XE2 4)A 228 537 542 XE5	56 111 88, 60 .72 63	,48 ,3 PLI 254 PEI)):1 34	PR EAS 4:P EK(NEX, PE	LR IN E E NOK I+ T: E KE	rem T"{: WAI :rem 532 :rem (56 :rem (56	1 BL T" PE 1 48 1 33 n :N	Ø4 29 K} 9Ø EK 31): 47 47 47 87 EX
10 15 20 25 30 35 40	R PO PO LO PO () FO PO PO PO PO PO PO PO PO PO PO T	S(14 DKE5 DKE2 DADI DKE5 L)AN DRI= DKE1 DKE1 DKE1 R1 DRD=	2): 1,0 14, NG 633 D25 ØTO +12 +13 ,PE 125	POK : PO 12: CHA 4, P 1 511 800 312 EK(44T	E5: KE! PR: RA(EEI : P(, PI 1)(01:	2,48 55,6 [INT: CTE] K(50 DKE: EEK EEK DR4 2544	3:PO POI RS. 5334 (1+1) (1+5 (1+5) (1+5) (1+6)	XE2 (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	56 11 88, 60 .72 63 EA	,48 ,3 PLI 254 PEI)):1 34, DY	PFEAS 4:PFEAS 4:PFEK(NEX, PE	LR IN E E O K E	rem T"{: WAI :rem 532 :rem (56 :rem (56 :rem),Y	1 BL T" PE 1 48 1 33 m 1 33 m 1 8 m	Ø4 29 K} 9Ø EK 31): 47 47 47 87 EX 93
F 10 15 20 25 30 35	HRS PO LO PO LO PO C FO PO PO PO PO PO PO PO PO PO PO PO PO PO	(14 DKE5 DKE2 DADI DKE5 DKE5 DKE1 DKE1 DKE1 DKE1 DKE5 DKE5	2): 1,0 14, NG 633 D25 ØTO +12 +13 ,PE 125 328	POK :PO 12: CHA 4,P 1 511 800 312 EK(44T 1,6	E5: KE! PR: RAG EEI : PG : PG : PG	2,48 55,1 (INT) CTE) K(50 OKE: SEK SEK DR4 2544 OKE!	B:POR POR 5334 (1+1) (1+5 (1+5) (1+5) (1+5) (1+5) (1+6) (1+6)	XE2 (4)A (537) (542) (4)A (537) (542) (542) (537) (542) (537) (542) (537) (542) (537) (542) (537) (542) (537) (542) (537) (542) (54)	56 111 ND 8, 60 .72 63 EA	,48 ,3 PLI 254 PEI) :1 34 , DY :PI	PF EAS 4:PF EAS 4:PF EK(NEX , PE :PO RIN	LR I I I I I I I I I I I I I I I I I I I	rem T"{! WAI' :re: E1, rem 532 :re: rem (56: :re: D,Y :re: {WH'	1 BL T P E 48 133 N T }	Ø4 29 K} 9Ø EK 31): 47 47 47 87 EX 93
10 15 20 25 30 35 40	HRS	(14 DKE5 DKE2 DADI DKE5 DKE5 DKE1 DKE1 DKE1 DKE1 DKE1 DKE5 DKE1 DKE1 DKE5 DKE1	2): 1,0 14, NG 633 025 0TO +12 +13 ,PE 125 328 {DO	POK :PO 12: CHA 4,P 1 511 800 312 EK(44T 1,6 WN}	E5: KE! PR: RAG EEI : PG , PI , PI 1)(0 01: : PG {6	2,48 55,6 (55,6 (50 (50) (50) (50) (50) (50) (50) (50)	3: PO 7 7 7 7 7 7 7 7 7 7 7 7 7	XE2 4)A 228 537 542 542 537 542 557 557 557 557 557 557 557 55	56 111 88, 60 72 63 EA 12 RV	,48 ,3 PLI 254 PEI)):1 34, DY :PI S}	PF EAS 4:PF EAS 4:PF EK(NEX , PE :PO RIN	LR I I I I I I I I I I I I I I I I I I I	rem rem T" { :re E1, rem 532 :re ire (56 : :re [0,Y :re [{ WH' ME	1 BL T m PE 1 8 m 1 3 3 n N T O	Ø4 29 8 8 8 31 31 47 47 47 47 47 87 87 87 7
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F 10 20 25 30 35 40 45 50 55 60 65 70 75	R POLO POLO POLO POLO POLO POLO POLO POL	<pre>\$(14 DKE5 DKE2 DADI DKE5 DKE5 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE5 CLR] E PL4 KESD DKE5 CLR] E PL4 S(1)</pre>	2):: 1,0 633 025 070 041 125 328 044 125 328 044 125 272 +9,6 044 (53 52 52 52 52 52 52 52 52 52 52	POK POK PO PO PO PO PO PO PO PO PO PO	E5: KE! PR: RAO EEI :PO () PI :PO (6 :PO (6 :PO :PO (6 :PO :PO :PO :PO :PO :PO :PO :PO	2,48 55,6 INT: CTE) K(50 DKE: SEK SEK SEK SEK SEK SEK SEK SEK SEK SEK	3: PO 3: PO 5: PO 5: Si 5:	XE2 XE2 XE2 XE2 XE3 XE5 X	56 11 ND 8,60 272 63 EA 12 NN 4: ,1 :B :4: :B :+ :B :- :EA : :B : : : : : : :	,48 ,3 PLI 254 PEI)):1 34, 0Y :PI 5:1 5:1 5:1 5:1 5:1 5:1 5:1	PFEAS PF	LR IN CONTRACTOR OF THE CONTRACT OF THE CONTRACT.	rem rem WAI': rem 532: rem 54: rem 55 rem 55: rem 55 rem 55 rem 55	11LBT mE18 13 N 33 N 37 Fm 27 1* m 11	Ø499 9EX1:30:47 9EX1:47 9EX1:5:00 5:00 5:00 5:00 5:00 5:00 5:00 5:0
F 10 20 25 30 35 40 45 50 55 60 65 70 75 80 85	R POLO POLO POLO POLO POLO POLO POLO POL	<pre>\$(14 DKE5 DKE2 DADI DKE5 DKE2 DADI DKE5 DKE5 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE3 CLR} CLR} CLR} CLR} CLR} CLR} CLR} CLR}</pre>	2):: 1,0 633 025 070 071 125 328 071 125 328 071 125 328 071 125 328 071 125 328 071 125 328 071 125 328 071 125 328 071 125 125 125 125 125 125 125 12	POK POK PO PO PO PO PO PO PO PO PO PO	E5: KE! PR: RAO EEI :PO () PI :PO (6 :PO (6 :PO :PO (6 :PO :PO :PO :PO :PO :PO :PO :PO	2,48 55,6 INT: SEK 254 2544 DKE: SEK 2544 DKE: SPA LON =SD' CL=(CL=(CL=(2)= ==""	3: PO 3: PO 5: PO 5: Si 5:	XE2 XE2 XE2 XE2 XE3 XE5 X	56 11 ND 8,60 272 63 EA 12 NN 4: ,1 :B :4: :B :+ :B :- :EA : :B : : : : : : :	,48 ,3 PLI 254 PEI)):1 34, 0Y :PI 5:1 5:1 5:1 5:1 5:1 5:1 5:1	PFEAS PF	LR IN COLUMN SD CK IN CALL ST	rem rem WAI': ref rem 5322: rem 5322: rem 5322: rem 5322: rem 1: rem : rem 1:	11L1 MP18 13 N }O T2L 7 1* m 112	Ø499 9EX1:77)772 5:0=2299*34 5102
F 10 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	R PPLU P()FPPPOIFT P()HISIOPDEP()LITITE M FBBM	<pre>\$(14 DKE5 DKE2 DADI DKE5 DKE2 DADI DKE5 DKE5 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE3 CLR} CLR} CLR} CLR} CLR} CLR} CLR} CLR}</pre>	2):: 1,0 633 D25 ØT025 ØT025 ØT125 328 ØT125 328 ANE272 +9,66 O44 (C35 C35 C35 C35 C35 C35 C35 C35	POK POK PO PO PO PO PO PO PO PO PO PO	E5: KE! PR: RAO EEI :PO (1) (01: :PO (60: PO (60: PO (1)) (1) (01: :PO (60: PO (1)) (1) (1) (1) (1) (1) (1) (1	2,48 55,6 INT: CTE) K(50 CKE: SEK SEK SEK 2544 DKE: SPA LON =SD' POKI CL=(CL=(CL=(CL=(CL=(CL=(CL=(CL=(3: PO 3: PO 5: PO 5: Si 5: Si 4: 4: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5:	XE2 XE2 XE2 XE2 XE3 XE5 X	56 11 ND 8,60 272 63 EA 12 NN 4: ,1 :B :4: :B :+ :B :- :EA : :B : : : : : : :	,48 ,3 PLI 254 PEI)):1 34, 0Y :PI 5:1 5:1 5:1 5:1 5:1 5:1 5:1	PFEAS PF	LR IN CONTRACTOR OF CONTRACTON	rem rem WAI': ref rem 5322: rem 532: rem 54: rem 55: rem 55: rem 55: rem 7	11L1 MP18 13 N }O T2L 7 1* M 1121	Ø49} 9E31:777)722PØS5,209*34 510228
F 10 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 55	REPPED POINT POINT POINT FEMILIO	<pre>\$(14 DKE5 DKE2 DADI DKE5 DKE2 DADI DKE5 DKE5 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1</pre>	2):: 1,0 633 D25 ØT025 ØT025 ØT025 041 227 9,6 044 (C5S **** =" 1T00 FRN A\$+1 T01	POK POK PO PO PO PO PO PO PO PO PO PO	E5: KE! PR: RAO EEI :PO (1) 01: :PO (6 :PO (6 :PO (7) :PO (6) :PO (7) :PO (7) :PO (7) :PO (7) :PO (7) :PO :PO :PO :PO :PO :PO :PO :PO	2,48 55,6 INT: CTE) K(50 DKE: SEK EEK SEK 2544 DKE! SPA LON ESD' CL=(CL=(CL=(CL=(CL=(CL=(CL=(CL=(3: PO 3: PO 5: PO 5: Si 5: Si 4: 4: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5:	XE2 XE2 XE2 XE2 XE3 XE5 X	56 11 ND 8,60 272 63 EA 12 NN 4: ,1 :B :4: :B :+ :B :- :EA : :B : : : : : : :	,48 ,3 PLI 254 PEI)):1 34, 0Y :PI 5:1 5:1 5:1 5:1 5:1 5:1 5:1	PFEAS PF	LR IN CONTRACTOR OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT	rem rem WAI': :re :rem (56 :rei :rei :rem (56 :rei :rei :rei :re :rem :rem :rem ::re : :rem :rem :re	11L" MP18 13 N }O T2L 7 1* M 11211	Ø2K 9E31:77)7X3 T2PØS5,20*4 90283 515753
F 10 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95	REPPED POINT POINT POINT FEMALON	<pre>\$(14 DKE5 DKE2 DADI DKE5 DKE2 DADI DKE5 DKE5 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1</pre>	2):: 1,0 633 D25 ØT025 ØT025 ØT025 ØT025 125 328 ØT025	POK POK PO PO PO PO PO PO PO PO PO PO	E5: KE! PR: RAO EEI :PO (1) 01: :PO (6 :PO (6 :PO (7) :PO (6) :PO (6) :PO (7) :PO :PO :PO :PO :PO :PO :PO :PO	2,48 55,6 INT: CTE) K(50 DKE: SEK SEK SEK 2544 DKE! SPN LON ESD' POKI CL=(CL=(CL=(CL=(CL=(CL=(CL=(CL=(3: PO 3: PO 5: PO 5: Si 5: Si 4: 4: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5:	XE2 XE2 XE2 XE2 XE3 XE5 X	56 11 ND 8,60 272 63 EA 12 NN 4: ,1 :B :4: :B :+ :B :- :EA : :B : : : : : : :	,48 ,3 PLI 254 PEI)):1 34, 0Y :PI 5:1 5:1 5:1 5:1 5:1 5:1 5:1	PFEAS PF	LR IN CONTRACTOR OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRA	rem rem WAI': :re :rem 532: rem (56 :rem 2532: rem (56 :rem 2532: :rem *rem *: :re : :rem : :rem : : : : : : : : : : : : : : : : : : :	11L" ME18 13 N }O T2L 7 1* M 112112	Ø2K 9E31:77)7X3 T2PØS5,29*3 515753
F 10 15 20 25 30 35 40 45 50 45 55 60 65 70 75 80 85 90 95 100	REPPLOY POLIFY POLIFY M FB MODIL	<pre>\$(14 DKE5 DKE2 DADI DKE5 DKE2 DADI DKE5 DKE5 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1</pre>	2):: 1,0 633 D25 ØT025 ØT025 ØT025 125 328 ØT025 9 4 272, 9,6 044 (538 **** =" 1T00 FRN A\$: 1T00 FRN A\$: 1 1 1 1 1 1 1 1 1 1 1 1 1	POK POK PO PO PO PO PO PO PO PO PO PO	E5: KE! PR: RAO EEI :PO (1) 01: :PO (6 :PO (6 :PO (7) :PO (6) :PO (6) :PO (7) :PO :PO :PO :PO :PO :PO :PO :PO	2,48 55,6 INT: CTE) K(50 DKE: SEK SEK SEK 2544 DKE! SPN LON ESD' POKI CL=(CL=(CL=(CL=(CL=(CL=(CL=(CL=(3: PO 3: PO 5: PO 5: Si 5: Si 4: 4: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5:	XE2 XE2 XE2 XE2 XE3 XE5 X	56 11 ND 8,60 272 63 EA 12 NN 4: ,1 :B :4: :B :+ :B :- :EA : :B : : : : : : :	,48 ,3 PLI 254 PEI)):1 34, 0Y :PI 5:1 5:1 5:1 5:1 5:1 5:1 5:1	PFEAS PF	LR IN E KITCO	rem rem WAI': ref frem 532 rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r rem 7 r r r r r r r r r r r r r r r r r r	11L" P18 13 N }O T2L 7 1* M 1121122	Ø2K 9E3):777)7X3 T2PØS5,209*3 51575345
F 10 15 20 25 30 35 40 45 50 55 60 55 60 65 70 75 80 85 90 95 100 10 51	REPPLOY POLY POLY POLY POLY POLY POLY POLY	<pre>\$(14 DKE5 DKE2 DADI DKE5 DKE2 DADI DKE5 DKE5 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1 DKE1</pre>	2):: 1,0 633 025 04 04 125 328 04 125 328 04 272 +9,6 04 4 (53 53 ***** 17 17 17 17 17 17 17 17 17 17	POK POK PO PO PO PO PO PO PO PO PO PO	E5: KE! PR: RAO EEI :PO (1) 01: :PO (6 :PO (6 :PO (7) :PO (6) :PO (6) :PO (7) :PO :PO :PO :PO :PO :PO :PO :PO	2,48 55,6 INT: CTE) K(50 DKE: SEK SEK SEK 2544 DKE! SPN LON ESD' POKI CL=(CL=(CL=(CL=(CL=(CL=(CL=(CL=(3: PO 3: PO 5: PO 5: Si 5: Si 4: 4: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5:	XE2 XE2 XE2 XE2 XE3 XE5 X	56 11 ND 8,60 272 63 EA 12 NN 4: ,1 :B :4: :B :+ :B :- :EA : :B : : : : : : :	,48 ,3 PLI 254 PEI)):1 34, 0Y :PI 5:1 5:1 5:1 5:1 5:1 5:1 5:1	PFEAS PF	LR IN CONTRACTOR OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT	rem rem WAI': :re :rem 532: rem (56 :rem 2532: rem (56 :rem 2532: :rem *rem *: :re : :rem : :rem : : : : : : : : : : : : : : : : : : :	11L" E18 13 N }O T2L 7 1*m 11211222	Ø2K 9E31:77)7X3 T2PØS5,29*3 515753

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315 POKEPO, 32 :rem 248 32Ø GOSUB355:GOTO175 :rem 194 325 POKEPO, 34: POKEPO+C, .: BS=BS-1: IFBS=ØTH ENSC=SC+100:GOTO340 :rem 243 330 SC=SC+100:PRINT" {HOME } {RED } "TAB(6)SC :rem 233 :rem 200 335 GOSUB355:GOTO175 34Ø SC=SC+((LV+1)*100):BS=4:PRINT"{HOME} {RED} "TAB(6)SC :rem 244 345 PRINT" {HOME} {10 DOWN} {40 SPACES}" :rem 42 346 PRINT" [HOME] [10 DOWN] [13 SPACES] [RVS] BONUS LEVEL "LV+1:LV=LV+1 :rem 81 350 FORD=.TO1500:NEXT:PRINT" {CLR}":GOTO75 :rem 141 355 PRINT" [HOME] [DOWN] [BLK] [DOWN] "LEFT\$ (T B\$,X)"*{DOWN}{3 LEFT}{4 SPACES}":RETU RN :rem 23 360 POKESD+4, 17: POKEHF, INT (RND(0)*50)+50: POKEFL, 250: POKESD+4, 16: RETURN: rem 255 365 POKESD+4, 129: FORMU=15TOØSTEP-1: POKEHF ,100:POKESD+24,MU:FORLL=1TO5:NEXT :rem 233 :rem 25 370 NEXT: POKESD+4, 128: RETURN 375 POKESD+4, 33: POKEHF, 100: POKEFL, 250: POK ESD+4,32:RETURN :rem 210 380 POKEPO+40, 35: POKEPO+40+C, 2: POKEPO+40, LS: POKEPO+40+C, LC: RETURN :rem 43 385 DATA :rem 238 390 DATA170,255,255,255,255,255,255,170 :rem 194 395 DATA24,60,102,126,126,24,36,195 :rem 238 400 DATA24,36,66,66,36,24,24,0 :rem 238 405 DATA24,60,126,254,127,60,8,0 :rem 79 410 DATA0,0,0,0,0,0,126,255 :rem 56 415 DATA170,255,255,255,255,254,252,248 :rem 194 420 DATA85,255,255,255,255,127,63,31 :rem 40 425 DATA215,225,231,235,231,235 :rem 34 430 IFSC>HITHENHI=SC:PRINT" {HOME } {DOWN } {BLK}"TAB(6)HI :rem 204 PRINT" {CLR} {9 DOWN} {3 RIGHT} 435 [12 SPACES] [RVS] [BLK] GAME OVER" :rem 232 436 PRINT" [DOWN] [15 SPACES] [RVS] [BLK] SCOR E"SC :rem 51 437 PRINT" [4 DOWN] [12 SPACES] PRESS [RVS] B {OFF} TO BEGIN": POKE198, Ø:GOTO455 :rem 166 440 PRINT" {DOWN } PRESS (SPACE BAR) TO REL EASE AND FIRE [3 SPACES] RETRO-ROCKETS. :rem 56 445 PRINT" {DOWN } PRESS (A)-TO MOVE LEFT A ND (D)-TO MOVE [2 SPACES] RIGHT." rem 235 450 PRINT" {DOWN } {RIGHT } PRESS {RVS } B {OFF } {SPACE}TO BEGIN ... ": POKE198,0 :rem 4 455 GETZ\$:IFZ\$<>"B"THEN455 :rem 16 460 LV=.:SC=.:M=.:RESTORE:CO=.:GOTO60 :rem 66 465 P=PEEK(197):PRINTP:GOTO465 :rem 108 **BEFORE TYPING...** Before typing in programs, please refer to "How To Type COMPUTE!'s Gazette Programs," "A Beginner's Guide To Typing In Programs," and

Bagdad

(Article on page 56.)

Program 1: Bagdad—VIC Version, Part 1

10 PRINT" {CLR } { 2 DOWN } "SPC(8) "BAGDAD" :rem 45 11 PRINT" [4 DOWN] IS THIS ON A [RVS]C[OFF] OLOR TV OR {RVS}B{OFF}LACK AND WHITE?" :rem 43 12 GETG\$: IFG\$<> "C"ANDG\$<> "B"THEN12 :rem 179 13 POKEØ,1:IFG\$="B"THENPOKEØ,Ø :rem 1 14 PRINT" {CLR } {DOWN } YOU CONTROL THE GOOD" :IFG\$="C"THENPRINT"GREEN";:GOTO16 :rem 128 15 PRINT"GREY"; :rem 169 16 PRINT" GENIE THAT": PRINT "APPEARS AT TH E BOTTOM OF THE SCREEN" :rem 105 17 PRINT" { DOWN } USE JOYSTICK CONTROL {2 SPACES}TO MOVE LEFT AND RIGHT" :rem 30 18 PRINT"PRESSING FIRE BUTTON [2 SPACES]WI LL CAUSE YOUR GENIE TO FLY UPWARDS ... " :rem 69 19 PRINT" [DOWN] RELEASING FIRE BUTTON WILL CAUSE YOUR GENIE TO FALL DOWNWARDS" :rem 195 20 PRINT" [DOWN] PUSH THE JOYSTICK [5 SPACES] FORWARD TO START A NEWGAME ": :rem 133 GOSUB29 21 PRINT" {CLR } {DOWN } YOUR OBJECTIVE IS TO {2 SPACES } KNOCK THE BAD GENIES [2 SPACES] OFF THEIR MAGIC" :rem 146 22 PRINT"CARPETS AND BACK INTO THEIR BOTT :rem 254 LES" 23 PRINT" {DOWN }YOU MUST THEN COLLECT THEI R BOTTLES BEFORE [2 SPACES] THEY EMERGE :rem 93 [SPACE]AGAIN" 24 PRINT" [DOWN] YOU ONLY SCORE POINTS FOR {SPACE}GETTING BOTTLES" :rem 246 25 PRINT" [DOWN]YOUR GENIE BEGINS WITHFOUR LIVES. [2 SPACES] AN EXTRA LIFE IS ADDE D FOR" :rem 233 26 PRINT"EVERY 4000 POINTS" :rem 101 27 GOSUB29: PRINT" [CLR] [DOWN] THESE CHARACT ERS WILL CHANGE AS THE PROGRAM LOADS" :rem 58 28 PRINT"{2 DOWN}{5 SPACES}PLEASE WAIT":G :rem 36 ото 32 PRINT" [HOME] [22 DOWN] [6 SPACES] HIT ANY 29 :rem 142 KEY [HOME] " GETG\$: IFG\$=""THEN3Ø :rem 245 30 **31 RETURN** :rem 68 FORI=832T0989:READA:POKEI,A:NEXT:SYS83 32 :rem 193 :rem 144 33 DATA 162,255,154,160,0,185 :rem 193 DATA 83,3,153,64,1,200 34 DATA 192,180,208,245,76,66 :rem 161 35 36 DATA 1,66,67,169,1,162 :rem 211 :rem 53 DATA 64,160,1,32,189,255 37 :rem 202 38 DATA 169,1,162,8,160,0 DATA 32,186,255,169,0,170 :rem 106 39 :rem 143 40 DATA 160,16,32,213,255,169 :rem 189 41 DATA 1,162,65,160,1,32 :rem 6Ø 42 DATA 189,255,169,1,162,8 43 DATA 160,0,32,186,255,169 :rem 100 DATA Ø,170,160,24,32,213 :rem 30 44

the Program Listings.

"The Automatic Proofreader" that appear before

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45	DATA	255,120,169,0,133,236	:rem	144
46	DATA	133,237,133,238,133,239	:rém	252
47	DATA	133,208,133,209,133,234	:rem	244
48	DATA	169,111,141,15,144,169	:rem	202
49	DATA	255,141,5,144,169,0	:ren	n 51
5Ø	DATA	141,27,145,169,255,141	:rem	198
51	DATA	20,145,141,21,145,165	:rem	135
52	DATA	162,9,192,133,162,160	:rem	146
53	DATA	1,132,184,132,185,132	:rem	140
54	DATA	186,165,0,240,7,200	:ren	n 41
55	DATA	200,132,185,200,132,186	:rem	237
56	DATA	160,0,185,0,30,153	:rem	242
57	DATA	0,2,185,0,31,153	:rem	143
58	DATA	0,3,136,208,241,76	:rem	254
59	DATA	30,2	:ren	n 73

Program 2:

Bagdad—Line Replacement For VIC Tape Users

32	FORI=832TO962:READA:POKEI,A:NEXT:SYS83
	2 :rem 184
33	DATA162,255,154,160,128,185,80,3
	:rem 238
34	DATA153,63,1,136,208,247,76,64:rem 144
35	DATA1,169,0,32,189,255,169,1 :rem 43
36	DATA170,160,0,32,186,255,169,0:rem 134
37	DATA170,160,16,32,213,255,169,0
	:rem 181
38	DATA170,160,24,32,213,255,120,169
	:rem 24
39	DATAØ, 133, 236, 133, 237, 133, 238, 133
	:rem 26
40	DATA239,133,208,133,209,133,234,169
	:rem 131
41	DATA111,141,15,144,169,255,141,5
1	:rem 226
42	DATA144,169,0,141,27,145,169,255
	:rem 242
43	DATA141, 20, 145, 141, 21, 145, 165, 162
10	:rem 15
44	DATA9,192,133,162,160,1,132,184
	:rem 182
45	DATA132,185,132,186,165,0,240,7
45	:rem 185
46	DATA200,200,132,185,200,132,186,160
40	:rem 110
47	DATAØ,185,Ø,30,153,Ø,2,185 :rem 179
48	DATAØ, 31, 153, Ø, 3, 136, 208, 241 :rem 21
49	
49	DATA76,30,2 :rem 225

Program 3: Bagdad—VIC Version, Part 2

See instructions in article before beginning. 4096 : 208,003,076,219,016,201,211 4102 :001,208,003,076,240,016,038 4108 :076,009,017,169,000,133,160 4114 :240,165,242,041,001,201,140 4120 :001,208,004,169,008,133,035 4126 :240,165,241,041,001,201,151 4132 :001,208,007,165,240,024,169 4138 :105,004,133,240,165,240,161 4144 :024,101,243,133,240,070,091 4150 :241,070,242,032,114,016,001 4156 :160,000,165,244,145,003,009 4162 :165,240,145,001,024,105,234 4168 :001,133,240,200,165,244,031 4174 :145,003,165,240,145,001,009 4180 :024,105,001,133,240,160,235 4186 :022,165,244,145,003,165,066

4192	:240,145,001,024,105,001,100
4198	:133,240,200,165,244,145,205
4204	:003,165,240,145,001,096,246
4210	:169,030,133,002,165,241,086
4216	:133,001,164,242,240,016,148
4222	:165,001,024,105,022,133,064
4228	:001,165,002,105,000,133,026
4234	:002,136,208,240,165,001,122
4240	:133,003,165,002,024,105,064
4246	:120,133,004,096,070,241,046
4252	:070,242,032,114,016,160,022
4258	:000,169,032,145,001,200,197
4264	:145,001,160,022,145,001,130
427Ø	:200,145,001,096,169,000,017
4276	:141,019,145,169,127,141,154
14 S 21 C	.141,019,149,109,127,141,194
4282	:034,145,173,032,145,041,244
4288	:128,208,002,169,002,133,066
4294	.245 169 255 141 034 145 162
	:245,169,255,141,034,145,163
4300	:173,017,145,073,255,041,140
43Ø6	:060,005,245,041,127,074,250
	122 245 006 160 002 160 254
4312	:133,245,096,160,003,169,254
4318	:060,153,117,030,153,120,087
4324	:030,153,029,031,153,048,160
4330	:031,169,061,153,139,030,049
4336	:153,142,030,153,051,031,032
4342	:153,070,031,136,208,225,045
4348	:169,058,153,117,030,153,164
4354	:124,030,153,033,031,153,014
4360	:048,031,192,022,208,001,254
4366	:096,160,022,169,059,208,216
4372	:233,000,160,062,189,002,154
4378	
	:001,201,041,240,002,160,159
4384	:060,132,204,076,195,023,210
4390	:000,000,165,180,074,074,019
4396	
	:168,185,184,000,160,022,251
4402	:145,003,096,133,235,230,124
4408	:233,216,169,009,032,009,212
4414	
	:019,169,062,160,045,153,158
4420	:205,031,136,208,250,164,038
4426	:233,240,008,169,037,136,129
4432	
	:153,229,031,208,250,169,096
4438	:038,141,236,031,169,039,228
4444	:141,243,031,160,004,185,088
	. 224 000 074 074 074 074 116
4450	:234,000,074,074,074,074,116
4456	:024,105,040,153,235,031,180
4462	:185,234,000,041,015,024,097
4468	:105,040,153,236,031,185,098
4474	:235,000,074,074,074,074,141
4480	:024,105,040,153,242,031,211
4486	:185,235,000,041,015,024,122
4492	:105,040,153,243,031,136,080
4498	:136,208,204,169,040,141,020
4504	:248,031,141,241,031,096,172
	.240,031,141,241,031,090,172
4510	:169,064,044,029,145,240,081
4516	:251,173,020,145,169,096,250
4522	141 021 145 160 000 122 011
	:141,021,145,169,000,133,011
4528	:210,165,208,240,023,197,195
4534	:209,048,019,133,209,169,201
4540	:000,160,005,132,210,136,063
4546	:153,010,144,208,250,169,104
4552	:015,141,014,144,169,000,171
4558	:133,208,165,209,201,002,100
	1100,200,100,200,201,002,100
4564	:240,015,201,003,240,035,178
4570	:201,005,240,070,201,006,173
4576	:240,095,076,089,018,165,139
and the second second	
4582	:210,240,004,169,236,133,198
4588	:212,198,212,165,212,141,096
4594	:011,144,201,232,208,004,018
4600	:169,000,133,209,096,165,252
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7158	:039,025,009,030,105,031,229
7164	:176,030,193,030,007,007,183
7170	:003,019,243,159,127,003,044
and the second second	
7176	:128,192,192,128,128,128,136
7182	:128,128,031,095,153,102,139
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7188	:000,000,000,000,128,160,052
7194	:144,096,000,000,000,000,010
7200	:000,000,000,001,015,009,057
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72Ø6	:007,000,120,124,060,056,149
7212	:056,248,248,056,001,005,146
2010 2010	
7218	:009,006,000,000,000,000,000
7224	:248,250,153,102,000,000,041
7230	:000,000,000,000,000,000,000
7236	:007,007,003,019,000,000,104
7242	:000,000,128,192,192,128,202
7248	:243,159,127,003,031,095,226
7254	:153,102,128,128,128,128,085
7260	:128,160,144,096,000,000,108
7266	:000,000,000,000,000,001,099
7272	:000,000,000,000,120,124,092
7278	:060,056,015,009,007,000,001
7284	:001,005,009,006,056,248,185
1204	
7290	:248,056,248,250,153,102,155
7296	:030,062,060,028,028,031,111
7302	:031,028,000,000,000,128,065
7308	:240,144,224,000,031,095,106
7314	:153,102,000,000,000,000,145
7320	:128,160,144,096,000,000,168
7326	:000,000,001,003,003,001,166
7332	:001,001,001,001,224,224,104
1.2.2.2	
7338	:192,200,207,249,254,192,184
7344	:001,005,009,006,000,000,197
735Ø	:000,000,248,250,153,102,167
and the second second	
7356	:000,000,000,000,000,000,188
7362	:000,000,030,062,060,028,118
7368	
	:000,000,000,000,000,000,200
7374	:000,128,028,031,031,028,196
738Ø	:031,095,153,102,240,144,209
7386	:224,000,128,160,144,096,202
7392	:000,000,000,000,001,003,228
7398	:003,001,000,000,000,000,234
7404	:224,224,192,200,001,001,054
7410	:001,001,001,005,009,006,009
7416	:207,249,254,192,248,250,112
7422	:153,102,000,000,000,000,253
7428	:000,000,000,000,000,060,024,088
7434	:024,060,126,255,255,126,088
the state of the state	
7440	:000,000,000,000,060,024,100
7446	:024,060,126,255,255,126,100
7452	:000,000,000,000,001,027,056
7458	:027,061,126,255,255,126,116
7464	:199,195,227,231,199,231,042
7470	:069,131,255,089,087,027,192
7476	:093,083,255,255,255,153,122
7482	:119,183,215,057,255,255,118
7488	:195,189,185,165,157,189,120
7494	:195,255,247,231,215,247,180
7500	:247,247,193,255,195,189,122
75Ø6	:253,243,207,191,129,255,080
1500	

7512	:195,189,253,227,253,189,114
7518	:195,255,251,243,235,219,212
2.2.2.2.2	
7524	:129,251,251,255,129,191,026
7530	:135,251,253,187,199,255,106
7536	:227,223,191,131,189,189,238
7542	:195,255,129,189,251,247,104
7548	:239,239,239,255,195,189,200
7554	:189,195,189,189,195,255,062
756Ø	:195,189,189,193,253,251,126
7566	:199,255,132,120,072,072,224
7572	:072,072,072,120,016,040,028
7578	:040,040,040,040,068,068,194
7584	:130,124,064,064,064,064,064,158
7590	:064,080,128,120,068,066,180
7596	:066,066,066,066,068,068,060
7602	:068,068,068,068,124,130,192
7608	:124,068,068,068,068,068,068,136
7614	
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7620	:068,068,124,130,066,066,206
7626	:066,066,066,068,120,128,204
7632	:016,016,056,124,254,254,160
7638	:254,124,056,056,056,056,048
7644	:056,056,056,255,255,231,105
765Ø	:195,195,129,129,129,129,108
7656	:129,129,129,129,129,129,238
7662	:129,255,255,255,255,255,106
7668	:255,255,255,255,255,255,238
7674	:255,255,255,255,255,255,244
768Ø	:032,050,051,052,053,051,033
7686	:053,032,054,055,056,057,057
7692	:055,057,032,032,032,032,252
7698	:032,032,032,032,032,032,032,210
7704	:032,032,032,032,032,032,000,184
7710	:160,000,132,233,169,032,244
7716	:153,000,030,153,000,031,147
7722	:169,007,153,000,150,153,162
7728	:000,151,136,208,237,169,181
7734	
	:061,133,247,169,062,133,091
7740	:246,169,063,133,248,032,183
7746	:219,016,032,063,017,160,061
7752	:007,185,000,002,153,183,090
7758	:030,185,007,002,153,205,148
7764	:030,185,014,002,153,245,201
7770	:030,185,021,002,153,252,221
7776	:030,136,208,229,169,003,103
7782	:160,088,153,176,150,136,197
7788	:208,250,076,162,003,032,071
7794	:178,016,041,002,240,249,072
7800	:169,003,133,233,169,004,063
78Ø6	:133,235,169,001,133,190,219
7812	:169,128,133,147,169,001,111
7818	:133,251,169,012,133,148,216
7824	:169,021,133,149,160,088,096
783Ø	:169,032,153,176,030,136,078
7836	:208,250,169,000,133,237,129
7842	:133,239,169,144,133,224,180
7848	:032,063,017,169,001,133,071
7854	:254,234,162,255,154,165,118
786Ø	:251,133,252,010,010,010,078
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7878	:176,208,248,169,000,157,132
7884	:000,001,232,224,193,208,038
7890	:248,169,000,133,178,133,047
7896	189 169 129 123 170 022 022
	:189,169,128,133,179,032,022
7902	:245,003,032,139,021,165,059
7908	:233,016,003,076,030,002,076
7914	:165,252,208,239,248,165,231
7920	:254,024,105,001,133,254,243
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Translation by Kevin Martin, Editorial Programmer See instructions in article before beginning.

2049 :011,008,000,000,158,050,228 2055 :048,054,049,000,000,000,158 2061 :076,066,008,000,002,002,167 :045,002,002,000,000,000,068 2Ø67 2073 :000,000,000,000,000,000,004,029 2079 :252,000,013,000,000,000,040 2085 :000,000,000,000,000,000,000,037 2091 :000,000,000,000,003,000,046 2097 :249,002,008,002,002,002,058 2103 :002,002,002,002,002,002,067 2109 :002,002,000,000,000,169,234 2115 :000,141,063,008,141,064,228 2121 :008,141,065,008,169,008,216 2127 :032,210,255,169,142,032,151 2133 :210,255,120,165,001,041,109 2139 :251,133,001,169,048,133,058 2145 :252,169,000,133,251,133,011 2151 :253,169,208,133,254,160,000 2157 :000,177,253,145,251,200,111 2163 : 208, 249, 230, 252, 230, 254, 002 184 COMPUTE!'s Gazette November 1984

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2187	:009,012,141,024,208,169,190
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2199	:251,160,000,132,253,169,092
2205	:048,133,254,177,251,145,141
2211	:253,200,208,249,230,252,019
2217	:230,254,177,251,145,253,199
2223	:200,192,080,208,247,032,110
2229	:192,018,169,147,032,210,181
2235	:255,169,000,141,033,208,225
2241	:141,032,208,169,012,141,128
2247	:134,002,169,000,141,046,179
2253	:021,169,080,141,045,021,170
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2277	:208,169,006,141,044,208,237
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2289	:046,208,160,000,169,071,127
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23Ø1	:177,251,240,010,032,210,149
2307	:255,200,208,246,230,252,114
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2319	:000,138,157,000,208,232,238
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2331	:141,231,007,169,012,141,216
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	:008,157,212,020,157,024,153
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2559	:008,048,008,169,008,141,125
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2595 :022,008,013,019,008,144,249 2601 :008,169,004,141,238,020,109 2607 :076,055,010,169,008,141,250 2613 :238,020,076,103,010,138,126 2619 :010,168,056,185,004,021,247 2625 :237,004,021,141,019,008,239 2631 :185,022,008,237,022,008,041 2643 :004,141,238,020,076,095,145 2649 :010,169,008,141,238,020,157,179 2667 :248,020,155,161,205,239,121 2673 :020,240,009,141,339,020,014 2679 :173,027,212,157,240,020,180 2685 :076,184,010,169,004,140,016 2691 :027,189,240,020,448,033,176 2697 :138,010,168,185,005,021,140 2693 :026,005,021,144,011,169,186 2703 :265,005,021,205,005,021,103 2715 :020,076,184,010,159,010,173,196 2721 :013,238,020,441,238,020,463 2733 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2753 :020,021,205,005,021,205,005,021,103 2763 :020,201,205,005,021,202,007,003 2764 :032,161,011,174,228,069 2775 <td>2500</td> <td>· MIQ MAR 185 M22 MAR 237 252</td>	2500	· MIQ MAR 185 M22 MAR 237 252
2601 :008,169,004,141,238,020,109 2607 :076,055,010,169,008,141,250 2613 :238,020,076,103,010,138,126 2619 :010,168,056,185,004,021,247 2625 :237,004,021,141,019,008,239 2631 :185,022,008,237,022,008,041 2643 :004,141,238,020,076,095,145 2649 :010,169,008,141,238,020,163 2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,157,179 2667 :248,020,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2679 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :0027,189,240,020,448,033,176 2697 :138,010,168,185,005,021,152 2703 :265,005,021,144,011,169,186 2709 :002,013,238,020,141,238,030 2715 :020,076,184,010,169,010,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,042,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,042,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,042,122,017 2775 :015,032,122,014,173,229,122 2781 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2823 :009,169,000,141,021,173,004,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,039 2841 :021,201,017,144,002,169,067 2847 :026,006,032,210,032,205,157 2863 :189,169,006,141,022,003,205,157 2863 :189,169,006,174,040,032,240,039 2841 :021,201,017,144,002,169,067 2847 :200,076,076,000,174,000,083 2841 :021,201,017,144,002,169,076 2957 :248,020,208,237,162,011,209 2953 :144,011,032,007,015,032,026 2961 :104,015,032,212,014,208,043 2959 :255,162,000,189,133,011,240,070 2959 :260,076,076,000,189,032,000,210 2949 :149,146,069,076,069,070,152,016,213 2969 :144,007,000,189,	- BAC (2.2)	
2607 :076,055,010,169,008,141,250 2619 :010,168,056,185,004,021,247 2625 :237,004,021,141,019,008,239 2631 :185,022,008,237,022,008,041 2637 :013,019,008,176,008,169,214 2643 :004,141,238,020,076,095,145 2649 :010,169,008,141,238,020,163 2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,173,79,000,144 2679 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,448,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,663 2773 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,200,303 2769 :015,032,122,010,07,303 2769 :015,032,122,010,07,303 2769 :015,032,122,010,07,303 2769 :015,032,122,014,073,229,122 2763 :003,076,185,009,032,007,003 2769 :015,032,122,014,173,229,122 2763 :003,076,185,009,0173,138 2775 :015,032,212,014,173,229,122 2763 :003,076,185,009,0173,128 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2797 :036,021,048,039,173,212,244 2793 :020,201,001,240,050,173,138 2797 :036,021,048,039,173,212,244 2793 :020,201,001,240,050,173,138 2775 :015,032,212,014,173,229,122 2781 :020,001,001,240,050,173,141,235 2811 :020,041,001,240,032,007,003 2841 :021,241,005,021,173,141,235 2811 :020,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2855 :008,238,000,021,173,000,203 2841 :021,201,007,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :008,238,000,021,173,000,203 2841 :021,201,007,044,032,240,009 2859 :255,162,000,189,133,011,240,070 2859 :255,162,000,189,133,011,240,070 2859 :255,162,000,189,133,011,240,070 2959 :144,011,032,007,015,032,004 2969 :144,015,032,212,244,205,157 2863 :189,169,050,141,248,020,116 2969 :032,020,041,012,141,210,001 2979 :102,076,076,070,000,152,016,215 2943 :087,065,086,069,032,000,216 2951 :164,005,021,210,014,003,004 2997 :162,	2595	
2607 :076,055,010,169,008,141,250 2619 :010,168,056,185,004,021,247 2625 :237,004,021,141,019,008,239 2631 :185,022,008,237,022,008,041 2637 :013,019,008,176,008,169,214 2643 :004,141,238,020,076,095,145 2649 :010,169,008,141,238,020,163 2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,173,79,000,144 2679 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,448,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,663 2773 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,200,303 2769 :015,032,122,010,07,303 2769 :015,032,122,010,07,303 2769 :015,032,122,010,07,303 2769 :015,032,122,014,073,229,122 2763 :003,076,185,009,032,007,003 2769 :015,032,122,014,173,229,122 2763 :003,076,185,009,0173,138 2775 :015,032,212,014,173,229,122 2763 :003,076,185,009,0173,128 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2797 :036,021,048,039,173,212,244 2793 :020,201,001,240,050,173,138 2797 :036,021,048,039,173,212,244 2793 :020,201,001,240,050,173,138 2775 :015,032,212,014,173,229,122 2781 :020,001,001,240,050,173,141,235 2811 :020,041,001,240,032,007,003 2841 :021,241,005,021,173,141,235 2811 :020,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2855 :008,238,000,021,173,000,203 2841 :021,201,007,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :008,238,000,021,173,000,203 2841 :021,201,007,044,032,240,009 2859 :255,162,000,189,133,011,240,070 2859 :255,162,000,189,133,011,240,070 2859 :255,162,000,189,133,011,240,070 2959 :144,011,032,007,015,032,004 2969 :144,015,032,212,244,205,157 2863 :189,169,050,141,248,020,116 2969 :032,020,041,012,141,210,001 2979 :102,076,076,070,000,152,016,215 2943 :087,065,086,069,032,000,216 2951 :164,005,021,210,014,003,004 2997 :162,	2601	:008,169,004,141,238,020,109
2613 :238,020,076,103,010,138,126 2619 :010,168,056,185,004,021,247 2625 :237,004,021,141,019,008,239 2631 :185,022,008,237,022,008,041 2643 :004,141,238,020,076,095,145 2649 :010,169,008,141,238,020,163 2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,157,179 2667 :248,020,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2679 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,448,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,188,010,168,241 2733 :185,005,021,205,005,021,103 2721 :013,238,020,141,238,020,663 2745 :238,020,441,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,114,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,013,132 2769 :015,032,114,015,032,122,017 2775 :015,032,212,014,173,122,241 2775 :015,032,212,014,173,122,241 2779 :006,141,022,008,141,044,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,240,650,173,138 2787 :036,021,048,039,173,212,244 2799 :006,141,022,008,141,044,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,240,053,141,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,240,053,120 2823 :009,169,000,141,021,206,043 2841 :021,201,007,144,002,169,067 2847 :016,074,141,211,020,162,133 2853 :008,238,000,021,173,000,203 2841 :021,201,007,144,002,169,067 2847 :016,074,141,211,020,162,133 2859 :025,162,000,189,133,011,240,070 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2877 :248,020,288,237,015,032,044 2901 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :246,006,032,210,014,209,011 2977 :248,002,210,014,012,014,206,156 2991 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :046,003,2100,024,041,012,141,210,001 2943 :169,015,056,237,210,014,108 2997 :162,007,017,014,102,104,046 299	2607	
2619 :010,168,056,185,004,021,247 2625 :237,004,021,141,019,008,239 2631 :165,022,008,237,022,008,041 2649 :010,169,008,141,238,020,163 2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,157,179 2667 :248,020,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2679 :173,027,212,157,240,020,140 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,020,163 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,141,018,010,168,241 2733 :185,005,021,141,018,010,168,241 2733 :185,005,021,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,141,238,020,063 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,032,181,011,174,228,069 2757 :020,232,236,211,002,240,132 2763 :003,076,155,009,032,007,003 2769 :015,032,164,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,065,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,52,440,003,076,166,198 2823 :008,129,000,141,021,208,041,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,52,440,003,076,166,198 2823 :008,129,000,141,022,008,141,004,043 2845 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2859 :255,162,000,189,123,010,203 2841 :021,201,017,144,002,160,007 2859 :255,162,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,21,202,016,113,01 2853 :001,160,017,024,032,240,000 2859 :255,162,000,189,133,011,240,070 2959 :144,011,032,007,015,032,004 2907 :248,020,200,041,012,142,201,01 2907 :248,020,200,041,012,414,000,013 2877 :021,202,002,200,041,012,110,201 2993 :160,017,024,032,240,025,057 2919 :162,000,189,133,011,240,070 2949 :144,015,032,210,0144,205,156 2947 :248,020,200,041,012,141,210,001 2949 :140,015,055,237,210,014,003,014 2997 :032,127,017,010,168,183,161		
2625 :237,004,021,141,019,008,239 2631 :185,022,008,237,022,009,041 2643 :004,141,238,020,076,095,145 2649 :010,169,008,141,238,020,163 2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,157,179 2667 :248,020,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2679 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,021,001,240,050,173,138 2779 :000,141,022,008,141,004,043 2805 :021,141,005,201,173,141,33 2805 :021,141,005,201,173,141,33 2817 :026,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,201,173,141,33 2817 :025,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2805 :001,141,022,008,141,004,043 2805 :001,141,022,008,141,004,043 2805 :001,141,022,008,141,004,043 2805 :001,141,022,008,141,004,043 2805 :001,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2841 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,183,130 2835 :008,238,000,021,173,100,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,184,032,250,157 2863 :189,169,050,141,248,020,116 2895 :244,010,032,210,255,037 2895 :144,011,032,007,015,032,064 2907 :248,020,200,21,025,232,200,028 2913 :160,017,024,032,240,250,557 2919 :162,000,189,133,011,240,070 2925 :006,032,210,015,2018,216 2943 :087,065,086,069,032,000,2150 2943 :245,773,210,024,042,240,25,057 2919 :162,000,189,133,011,240,070 2944 :149,140,069,070,152,018,204 2941 :164,007,001,142,141,210,014,046 2		
2625 :237,004,021,141,019,008,239 2631 :185,022,008,237,022,009,041 2643 :004,141,238,020,076,095,145 2649 :010,169,008,141,238,020,163 2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,157,179 2667 :248,020,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2679 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,021,001,240,050,173,138 2779 :000,141,022,008,141,004,043 2805 :021,141,005,201,173,141,33 2805 :021,141,005,201,173,141,33 2817 :026,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,201,173,141,33 2817 :025,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2805 :001,141,022,008,141,004,043 2805 :001,141,022,008,141,004,043 2805 :001,141,022,008,141,004,043 2805 :001,141,022,008,141,004,043 2805 :001,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2841 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,183,130 2835 :008,238,000,021,173,100,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,184,032,250,157 2863 :189,169,050,141,248,020,116 2895 :244,010,032,210,255,037 2895 :144,011,032,007,015,032,064 2907 :248,020,200,21,025,232,200,028 2913 :160,017,024,032,240,250,557 2919 :162,000,189,133,011,240,070 2925 :006,032,210,015,2018,216 2943 :087,065,086,069,032,000,2150 2943 :245,773,210,024,042,240,25,057 2919 :162,000,189,133,011,240,070 2944 :149,140,069,070,152,018,204 2941 :164,007,001,142,141,210,014,046 2	2619	:010,168,056,185,004,021,247
2631 :185,022,008,237,022,008,041 2633 :013,019,008,176,008,169,214 2649 :010,169,008,141,238,020,163 2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,157,179 2667 :248,020,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2679 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,000,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,142,228,101 2751 :020,021,003,208,011,169,077 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,021,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,206,043 2829 :006,032,212,014,003,283,016 2817 :225,255,240,003,076,166,193 2829 :006,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,022,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,033 2841 :021,201,017,144,022,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,032,016 2847 :208,245,169,000,174,000,083 2877 :224,020,202,202,023,205,157 2883 :189,169,050,141,248,020,116 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2903 :248,020,018,162,000,032,150 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2955 :006,032,210,014,102,140,216 2949 :144,009,001,141,210,014,046 2941 :104,007,004,142,210,014,046 2941 :104,00	2625	
2637 :013,019,008,176,008,169,214 2643 :004,141,238,020,076,095,145 2659 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,157,179 2667 :248,026,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2659 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,044,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2729 :013,238,020,141,238,020,663 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,122,014,173,229,122 2763 :003,076,185,009,032,007,003 2769 :015,032,212,014,173,229,122 2763 :003,076,185,009,032,007,003 2769 :015,032,212,014,173,229,122 2761 :020,021,003,208,011,169,077 2795 :015,032,212,014,173,229,122 2781 :020,201,003,208,011,169,077 2799 :000,141,002,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :009,169,000,141,021,208,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,240,033,076,166,198 2823 :009,169,000,141,021,208,043 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :001,160,077,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :001,160,077,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,077,044,032,240,009 2851 :2240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,003,205,157 2843 :189,169,050,141,240,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2955 :066,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2945 :006,032,007,000,189,094 2955 :006,070,069,070,000,189,094 2961 :000,220,041,012,141,210,041 2961 :000,220,041,012,141,210,041 2961 :002,247,017,010,165,138,161		
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2649 :010,169,008,141,238,020,163 2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,157,179 2667 :248,020,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2679 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,021,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,163,000,141,021,208,043 2859 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,208,043 2853 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,208,043 2853 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,208,043 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,032,055,057 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,2150 2891 :144,011,032,007,015,032,150 2895 :144,011,032,007,015,032,150 2895 :144,011,032,007,015,032,150 2895 :144,011,032,007,015,032,064 2991 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2955 :066,032,210,255,232,080 2971 :248,020,240,210,214,229,110 2973 :208,068,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2643	:004,141,238,020,076,095,145
2655 :076,103,010,169,000,141,082 2661 :238,020,173,238,020,157,179 2667 :248,020,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2679 :173,027,212,157,240,020,014 2679 :173,027,212,157,240,020,014 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,032,181,011,174,228,069 2757 :020,032,181,011,174,228,069 2757 :020,032,181,011,174,228,069 2757 :020,032,181,011,174,228,069 2757 :020,032,181,011,174,228,069 2757 :020,032,104,015,342,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,003,208,011,169,077 2799 :015,032,212,014,173,229,122 2781 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2853 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,83 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,32,150 2895 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,041,012,141,210,014,0409 2949 :149,146,069,070,069,070,014,108 2949 :149,146,069,070,069,070,014,108 2949 :149,146,069,070,069,070,014,009,01 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :109,015,056,237,210,014,108 2997 :032,127,017,010,168,	2649	
2661 :238,020,173,238,020,157,179 2667 :248,020,165,161,205,239,121 2673 :020,240,009,141,239,020,014 2679 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,020,663 2715 :020,076,184,010,183,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,122,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2793 :020,201,003,208,011,169,077 2793 :020,201,003,208,011,162,143 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,632,016 2812		
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2673 :020,240,009,141,239,020,014 2675 :173,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,020,063 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,032,236,211,020,240,132 2763 :003,076,185,009,032,087,003 2763 :003,076,185,009,032,047,003 2763 :003,076,185,009,032,047,003 2763 :003,076,185,009,032,047,003 2763 :003,076,185,009,032,047,003 2765 :015,032,212,014,173,229,122 2761 :020,201,003,208,011,169,077 2779 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,248,033,130 2823 :009,169,000,141,021,208,043 2805 :024,00	2661	:238,020,173,238,020,157,179
2673 :020,240,009,141,239,020,014 2675 :173,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,020,063 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,032,236,211,020,240,132 2763 :003,076,185,009,032,087,003 2763 :003,076,185,009,032,047,003 2763 :003,076,185,009,032,047,003 2763 :003,076,185,009,032,047,003 2763 :003,076,185,009,032,047,003 2765 :015,032,212,014,173,229,122 2761 :020,201,003,208,011,169,077 2779 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,248,033,130 2823 :009,169,000,141,021,208,043 2805 :024,00	2667	:248,020,165,161,205,239,121
2679 :173,027,212,157,240,020,180 2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,120,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2847 :016,074,141,211,020,162,143 2851 :001,041,001,208,249,032,016 2817 :228,28,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2857 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2895 :144,011,032,007,015,032,064 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,57 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,008,028 2931 :245,173,211,020,141,229,110 2949 :149,146,069,070,069,070,059,070,194 2949 :149,146,069,070,069,070,018,012 2949 :144,015,032,212,014,206,156 2947 :248,020,088,237,162,011,209 2949 :149,146,069,070,069,070,018,014 2949 :149,146,069,070,069,070,018,014 2949 :149,146,069,070,069,070,018,014 2949 :149,146,069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,044,009 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :004,005,217,210,173,210,044,046 2991	2673	
2685 :173,212,020,201,003,240,206 2691 :027,189,240,020,048,033,176 2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2711 :013,238,020,141,238,020,063 2721 :013,238,020,141,238,020,063 2731 :076,184,010,189,010,168,241 2733 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2763 :020,221,206,032,007,003 2763 :020,221,004,015,032,122,017 2775 :015,032,212,014,173,229,122 2761 :020,201,003,208,011,169,077 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2823 :009,169,000,141,021,208,043 2805 :021,017,144,002,169,067 283 :009,000,141,021,208,043 2847 :016,077,024,032,240,009 2853 :008,238,000,021,173,000,203 2847 :020,041,001,208,249	2	
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2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :008,169,000,141,021,208,043 285 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2859 :255,162,000,189,125,013,017 2859 :255,162,000,189,125,013,017 2859 :255,162,000,189,125,013,017 2859 :255,162,000,189,125,013,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,014,009,011 2949 :149,146,069,070,069,070,000,189,094 2955 :069,070,069,070,069,070,014,001 2949 :149,146,069,070,069,070,000,189,094 2955 :069,070,069,070,069,070,000,190,01 2949 :149,146,069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,000,189,094 2955 :069,070,069,070,069,070,014,009 2959 :169,015,056,23	2685	:173,212,020,201,003,240,206
2697 :138,010,168,185,005,021,152 2703 :205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :008,169,000,141,021,208,043 285 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2859 :255,162,000,189,125,013,017 2859 :255,162,000,189,125,013,017 2859 :255,162,000,189,125,013,017 2859 :255,162,000,189,125,013,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,014,009,011 2949 :149,146,069,070,069,070,000,189,094 2955 :069,070,069,070,069,070,014,001 2949 :149,146,069,070,069,070,000,189,094 2955 :069,070,069,070,069,070,000,190,01 2949 :149,146,069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,000,189,094 2955 :069,070,069,070,069,070,014,009 2959 :169,015,056,23	2691	:027,189,240,020,048,033,176
2703 : 205,005,021,144,011,169,186 2709 :002,013,238,020,141,238,033 2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :202,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2859 :022,228,014,076,183,130 2851 :001,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :001,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2891 :104,015,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2891 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,232,000 2871 :208,245,169,000,174,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,000,189,094 2951 :044,009,001,141,210,014,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2997 :032,127,017,010,168,138,161	2697	
2709 : $002,013,238,020,141,238,033$ 2715 : $020,076,184,010,169,001,103$ 2721 : $013,238,020,141,238,020,063$ 2727 : $076,184,010,138,010,168,241$ 2733 : $185,005,021,205,005,021,103$ 2739 : $144,223,076,159,010,173,196$ 2745 : $238,020,041,015,142,228,101$ 2751 : $020,032,181,011,174,228,069$ 2763 : $003,076,185,009,032,007,003$ 2769 : $015,032,104,015,032,122,017$ 2775 : $015,032,104,015,032,122,017$ 2775 : $015,032,104,015,032,122,017$ 2775 : $015,032,212,014,173,229,122$ 2781 : $020,201,001,240,050,173,138$ 2787 : $036,021,048,039,173,212,244$ 2793 : $020,201,003,208,011,169,077$ 2799 : $000,141,022,008,141,004,043$ 2805 : $021,141,005,021,173,141,235$ 2811 : $002,041,001,208,249,032,016$ 2817 : $225,255,240,003,076,166,198$ 2823 : $009,169,000,141,021,208,043$ 2829 : $096,032,228,014,076,183,130$ 2835 : $008,238,000,021,173,000,203$ 2841 : $021,201,017,144,002,169,067$ 2847 : $016,074,141,211,020,162,143$ 2853 : $011,160,017,024,032,240,009$ 2859 : $255,162,000,189,125,011,017$ 2865 : $240,006,032,210,255,232,000$ 2871 : $208,245,169,000,174,000,083$ 2877 : $021,202,202,202,032,205,157$ 2883 : $189,169,050,141,248,020,116$ 2895 : $144,011,032,007,015,032,064$ 2901 : $104,015,032,017,424,022,005,257$ 2907 : $248,020,208,237,162,011,209$ 2913 : $160,017,024,032,240,255,232,000$ 2871 : $208,245,169,000,174,200,032,150$ 2895 : $144,011,032,007,015,032,064$ 2901 : $104,015,032,017,024,032,240,255,057$ 2913 : $160,017,024,032,240,255,057$ 2913 : $160,017,024,032,240,255,057$ 2913 : $160,017,024,032,240,255,057$ 2913 : $160,017,024,032,240,255,057$ 2913 : $160,017,024,032,240,255,057$ 2913 : $160,017,024,032,240,255,057$ 2913 : $160,017,024,032,000,141,229,110$ 2937 : $020,076,076,009,152,018,216$ 2943 : $087,065,086,069,032,000,210$ 2943 : $087,065,086,069,032,000,210$ 2943 : $087,065,086,069,032,000,210$ 2943 : $087,065,086,069,032,000,200,019$ 2955 : $004,000,140,21,173,210,039$ 2955 : $014,009,001,141,210,014,046$ 2997 : $032,127,017,010,168,138,161$		
2715 :020,076,184,010,169,001,103 2721 :013,238,020,141,238,020,063 2737 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2745 :238,020,041,015,142,228,101 2745 :238,020,041,015,142,228,101 2745 :2020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,0448,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2823 :009,169,000,141,021,208,043 2829 :036,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :		
2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,55,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,002,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,07 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,018,216 2943 :087,065,086,069,032,008,210 2943 :087,065,086,069,032,008,210 2949 :149,146,069,070,009,189,094 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2967 :014,189,000,220,041,012,141,210,001 2967 :014,189,000,220,041,014,009,011 2973 :208,008,173,210,014,008 2997 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108	2709	
2721 :013,238,020,141,238,020,063 2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,55,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,002,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,07 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2913 :160,017,024,032,240,255,018,216 2943 :087,065,086,069,032,008,210 2943 :087,065,086,069,032,008,210 2949 :149,146,069,070,009,189,094 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2967 :014,189,000,220,041,012,141,210,001 2967 :014,189,000,220,041,014,009,011 2973 :208,008,173,210,014,008 2997 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108	2715	:020,076,184,010,169,001,103
2727 :076,184,010,138,010,168,241 2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2895 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,13,011,240,070 2925 :006,032,210,255,232,208,042 2931 :245,173,211,020,141,229,110 2937 :245,076,076,009,152,018,216 2941 :104,015,032,212,014,206,156 2947 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,200,070,194,208 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2949 :149,146,069,070,069,070,194 2955 :069,076,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,0194 2955 :069,076,076,076,009,152,018,216 2943 :087,065,086,069,072,004,106,119 2973 :208,008,173,210,014,069,071 2955 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2721	
2733 :185,005,021,205,005,021,103 2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2835 :008,238,000,021,173,00,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,032,245,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,13,011,240,070 2925 :006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,007,015,032,064 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2951 :000,220,041,012,141,210,001 2949 :149,146,069,070,069,070,194 2951 :000,220,041,012,141,210,001 2949 :149,146,069,070,069,070,194 2951 :000,220,041,012,141,210,001 2949 :149,146,069,070,069,070,194 2955 :000,076,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :000,076,076,076,000,189,094 2951 :000,220,041,012,141,210,001 2951 :000,220,041,012,141,210,001 2951 :000,220,041,012,141,210,001 2951 :000,220,041,012,141,210,014,069 2951 :000,220,041,012,141,210,014,060 2949 :149,040,001,141,210,014,016,119 2973 :208,008,173,210,014,108 2997 :002,76,172,017,010,168,138,161	121112	
2739 :144,223,076,159,010,173,196 2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,122,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 289 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,232 200,032,150 2955 :144,011,022,02,202,000,032,150 2965 :144,011,032,007,015,032,064 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,064,108 2949 :149,146,069,070,069,070,044,089 2941 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2745 :238,020,041,015,142,228,101 2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,32,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,73 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :144,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,034 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,034 2961 :000,220,041,012,141,210,014 2967 :014,189,000,220,041,012,141,210,014 2967 :014,189,000,220,041,012,141,210,014 2967 :014,189,000,200,041,014,014,009,011 2979 :002,076,172,011,173,210,014,009,011 2979 :002,076,172,011,173,210,014,009,011 2979 :002,076,172,011,173,210,014,009,011 2979 :002,076,172,011,173,210,014,009,011 2979 :002,076,172,011,173,210,014,009,011	2733	
2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2855 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,022,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,189,034 2955 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :006,070,069,070,069,070,194 2955 :006,070,069,070,069,070,194 2955 :006,070,069,070,069,070,194 2955 :006,070,069,070,069,070,014,009 2949 :149,146,069,070,069,070,069,070,094 2955 :006,070,069,070,069,070,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,012,141,210,001 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,008 2997 :032,127,017,010,168,138,161	2739	:144,223,076,159,010,173,196
2751 :020,032,181,011,174,228,069 2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2855 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,022,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,189,034 2955 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :006,070,069,070,069,070,194 2955 :006,070,069,070,069,070,194 2955 :006,070,069,070,069,070,194 2955 :006,070,069,070,069,070,014,009 2949 :149,146,069,070,069,070,069,070,094 2955 :006,070,069,070,069,070,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,012,141,210,001 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,008 2997 :032,127,017,010,168,138,161	2745	:238.020.041.015.142.228.101
2757 :020,232,236,211,020,240,132 2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :001,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :248,020,208,070,069,070,194 2955 :065,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,000,189,094 2955 :066,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2949 :149,146,069,070,000,189,094 2955 :065,070,069,070,000,189,094 2955 :065,070,069,070,000,189,094 2955 :065,070,069,070,000,189,094 2955 :065,070,069,070,000,189,094 2955 :065,070,069,070,000,189,094 2955 :065,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2763 :003,076,185,009,032,007,003 2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2913 :160,017,024,032,240,255,057 2919 :162,000,189,13,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :006,032,210,220,041,012,141,210,001 2973 :208,008,173,210,014,009,011 2973 :208,008,173,210,014,009,011 2973 :208,008,173,210,014,009,011 2973 :208,008,173,210,014,009,011	2757	
2769 :015,032,104,015,032,122,017 2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :006,032,210,220,041,012,141,210,001 2973 :208,008,173,210,014,009,011 2973 :208,008,173,210,014,009,011 2973 :208,008,173,210,014,009,011 2973 :208,008,173,210,014,009,011	2763	:003,076,185,009,032,007,003
2775 :015,032,212,014,173,229,122 2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,77 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :144,189,100,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,189,094 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,012,141,210,001 2967 :014,189,000,220,041,012,141,210,039 2955 :014,009,001,141,210,014,004	2769	:015.032.104.015.032.122.017
2781 :020,201,001,240,050,173,138 2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2943 :104,169,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,076,076,009,152,018,216 2943 :087,065,086,069,032,000,189,094 2955 :069,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,000,189,094 2955 :069,076,076,070,009,152,018,216 2943 :087,065,086,069,070,069,070,000,189,094 2955 :069,076,076,070,009,152,018,216 2943 :087,065,086,069,070,069,070,194 2955 :069,076,076,070,009,180,013 2977 :208,008,173,210,014,009,011 2977 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2787 :036,021,048,039,173,212,244 2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,076,076,009,152,018,216 2943 :087,065,086,069,070,069,070,194 2955 :069,076,076,070,069,070,069,070,194 2955 :069,076,076,070,069,070,069,070,194 2955 :069,076,076,070,009,152,018,216 2943 :087,065,086,069,070,069,070,194 2955 :069,076,076,070,069,070,069,070,194 2955 :069,076,076,070,069,070,069,070,194 2955 :069,076,076,070,069,070,069,070,194 2955 :069,076,076,070,069,070,069,070,194 2955 :069,076,076,070,069,070,069,070,194 2965 :014,009,001,141,210,014,004		
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2793 :020,201,003,208,011,169,077 2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :066,032,210,255,232,000,210 2949 :149,146,069,070,069,070,194 2955 :066,076,076,070,069,070,194 2955 :069,070,069,070,000,189,094 2955 :069,070,069,070,000,189,094	2787	:036,021,048,039,173,212,244
2799 :000,141,022,008,141,004,043 2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,070,069,070,194 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2955 :000,0220,041,012,141,210,001 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,004 2991 :169,015,056,237,210,014,009	2793	
2805 :021,141,005,021,173,141,235 2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,052,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2955 :000,0220,041,012,141,210,001 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,004 2991 :169,015,056,237,210,014,009,011 2979 :002,076,172,011,173,210,014,004 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2811 :002,041,001,208,249,032,016 2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,070,069,070,194 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2955 :000,220,041,012,141,210,001 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2	
2817 :225,255,240,003,076,166,198 2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2899 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,070,069,070,194 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2955 :000,220,041,012,141,210,014 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,004 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
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2823 :009,169,000,141,021,208,043 2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2955 :009,070,069,070,000,189,094 2955 :009,070,069,070,000,189,094 2955 :009,070,069,070,000,189,094 2955 :0014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2817	:225,255,240,003,076,166,198
2829 :096,032,228,014,076,183,130 2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,069,070,069,070,194 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2955 :009,070,069,070,000,189,094 2955 :0014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2835 :008,238,000,021,173,000,203 2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2973 :208,008,173,210,014,009,011 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2841 :021,201,017,144,002,169,067 2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2835	:008,238,000,021,173,000,203
2847 :016,074,141,211,020,162,143 2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2841	:021,201,017,144,002,169,067
2853 :011,160,017,024,032,240,009 2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2847	·016 074 141 211 020 162 143
2859 :255,162,000,189,125,011,017 2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		all 160 017 024 022 240 000
2865 :240,006,032,210,255,232,000 2871 :208,245,169,000,174,000,083 2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2871 : 208,245,169,000,174,000,083 2877 : 021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 : 248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2859	:255,162,000,189,125,011,017
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2877 :021,202,202,202,032,205,157 2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2871	
2883 :189,169,050,141,248,020,116 2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2889 :032,089,018,162,000,032,150 2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		100 100 050 141 040 000 116
2895 :144,011,032,007,015,032,064 2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		:189,169,050,141,248,020,116
2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2889	
2901 :104,015,032,212,014,206,156 2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2895	:144,011,032,007,015,032,064
2907 :248,020,208,237,162,011,209 2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2901	:104.015.032.212.014.206.156
2913 :160,017,024,032,240,255,057 2919 :162,000,189,133,011,240,070 2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		-249 020 209 237 162 011 209
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2925 :006,032,210,255,232,208,028 2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2931 :245,173,211,020,141,229,110 2937 :020,076,076,009,152,018,216 2943 :087,065,086,069,032,000,210 2949 :149,146,069,070,069,070,194 2955 :069,070,069,070,000,189,094 2961 :000,220,041,012,141,210,001 2967 :014,189,000,220,041,016,119 2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2919	:162,000,189,133,011,240,070
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2973 :208,008,173,210,014,009,011 2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		- Clo, 220, 041, 012, 141, 210, 001
2979 :002,076,172,011,173,210,039 2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		1014,189,000,220,041,016,119
2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161		
2985 :014,009,001,141,210,014,046 2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2979	:002,076,172,011,173,210,039
2991 :169,015,056,237,210,014,108 2997 :032,127,017,010,168,138,161	2985	
2997 :032,127,017,010,168,138,161		
3003 :010,170,189,005,021,240,054		
	3003	:010,170,189,005,021,240,054

2000	- MAD 105 170 MIA MTO 105 M69
3009	:008,185,179,014,072,185,068
3015	:178,014,072,096,076,211,078
3021	:012,189,005,021,056,237,213
3Ø27	:017,008,201,050,176,011,162
3Ø33	:169,000,056,253,047,008,238
2020	
3Ø39	:157,047,008,169,050,157,043
3Ø45	:005,021,169,002,141,018,073
2222	
3051	:008,076,087,013,189,005,101
3Ø57	:021,024,109,017,008,201,109
2021	
3Ø63	:229,144,011,169,000,056,088
2000	
3069	:253,047,008,157,047,008,005
3075	:169,230,157,005,021,169,242
0.012	
3Ø81	:001,141,018,008,076,087,084
2007	
3Ø87	:013,169,004,141,018,008,112
3093	:138,074,168,189,004,021,103
3Ø99	:056,237,017,008,141,020,250
2105	
3105	:008,185,022,008,233,000,233
3111	:141,021,008,056,173,020,202
S252	
3117	:008,233,024,141,019,008,222
3123	:173,021,008,233,000,013,243
1000	
3129	:019,008,176,010,169,001,184
3135	
2122	:141,021,008,169,063,141,094
3141	:020,008,173,020,008,157,199
3147	:004,021,173,021,008,153,199
3153	:022,008,076,087,013,169,200
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3165	:168,189,004,021,024,109,096
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3171	:017,008,141,020,008,185,222
3177	:022,008,105,000,141,021,146
3183	:008,056,173,020,008,233,097
3189	:064,141,019,008,173,021,031
3195	:008,233,001,013,019,008,149
32Ø1	:144,010,169,000,141,021,102
5201	1144,010,109,000,141,021,102
32Ø7	:008,169,024,141,020,008,249
3213	
2.2.2.2	:173,020,008,157,004,021,012
3219	:173,021,008,153,022,008,020
3225	
	:076,087,013,032,217,012,078
3231	:138,074,168,185,212,020,188
3237	
	:208,003,076,016,013,096,065
3243	:032,246,012,076,159,012,196
3249	:032,217,012,138,074,168,050
3255	:185,212,020,208,238,076,098
3261	
	:050,013,032,246,012,076,106
3267	:180,012,032,217,012,189,069
2272	.021 000 240 005 016 000 077
3273	:031,008,240,005,016,088,077
3279	:076,073,013,096,032,246,231
	A12 A76 200 A12 100 A47 027
3285	:012,076,200,012,189,047,237
3291	:008,201,248,240,008,222,122
3297	:047,008,189,047,008,016,028
33Ø3	:029,056,169,000,253,047,017
	-000 074 074 141 017 000 047
3309	:008,074,074,141,017,008,047
3315	:076,206,011,189,047,008,012
3321	:201,008,240,008,254,047,239
3327	:008,189,047,008,048,227,014
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3345	.074 160 160 012 152 240 074
	:074,168,169,013,153,248,074
3351	:007,189,031,008,201,016,219
	240 000 254 021 000 100 247
3357	:240,008,254,031,008,189,247
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3375	:076,016,012,138,074,168,019
	160 014 152 240 007 100 005
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3393	:222,031,008,189,031,008,042
3399	:016,222,169,000,056,253,019
3405	:031,008,074,074,141,017,166
3411	:008,076,086,012,142,030,181
3417	:008,138,074,168,185,212,106
3423	:020,201,003,208,001,096,112

3429 :189,004,021,056,233,024,116 3435 :141,020,008,185,022,008,235 3441 :233,000,141,021,008,078,082 3447 :021,008,110,020,008,109,102 3459 :005,021,056,233,047,074,055 3465 :074,074,141,019,008,173,114 3471 :019,008,010,168,185,021,042 3477 :020,024,109,020,008,133,207 3483 :251,185,022,020,105,000,226 3489 :133,252,162,000,189,009,138 3495 :020,168,177,251,201,032,248 3501 :208,014,232,224,012,208,047 3507 :241,032,099,016,176,007,238 3513 :174,030,008,096,076,136,193 3519 :014,172,021,008,240,011,145 3525 :172,020,008,206,087,172,096 3531 :021,008,076,211,013,172,192 3537 :020,008,185,212,020,201,087 3543 :001,208,003,076,101,014,106 3549 :201,002,208,003,076,101,014,106 3549 :201,002,208,003,076,101,014,106 3549 :201,002,208,003,076,101,014,106 3549 :201,002,208,003,185,220,020,013 3561 :045,021,208,141,021,208,109 3567 :206,229,020,032,181,015,154 3573 :076,001,164,152,010,170,000 3579 :189,005,021,205,005,021,185 3585 :176,003,076,021,015,169,205 3591 :002,153,212,020,169,015,066 3597 :153,244,021,152,010,168,035 3609 :169,000,153,031,008,153,027 3615 :047,008,173,030,018,153,027 3653 :047,008,173,031,008,153,027 3653 :157,031,008,076,101,014,192 3633 :249,031,008,153,031,008,017 369 :169,000,556,253,031,008,017 369 :169,000,556,253,031,008,017 369 :169,000,056,253,031,008,017 369 :169,000,056,253,031,008,017 369 :169,000,056,253,031,008,017 369 :169,000,056,253,031,008,017 369 :169,000,056,253,031,008,017 369 :169,000,056,253,031,008,017 369 :169,000,056,253,031,008,017 369 :169,000,056,253,031,008,017 371 :239,011,020,240,011,014,192 3651 :144,034,021,173,030,008,217 3663 :221,022,011,022,202,011,007 374 :068,766,11,014,159,000,240,005 3723 :024,021,201,002,240,011,004,400 374 :068,766,11,014,159,000,240,005 374 :008,169,000,056,249,047,108 374 :008,076,11,014,169,000,240,005 375 :133,162,165,162,201,002,226 3759 :208,250,096,202,011,004,208 3761 :200,012,202,011,202,011,202,011 3771 :013,155,012,170,012,202,239 3777 :011,049,013,176,012,190,132		
 3435 : 141, Ø2Ø, ØØ8, 185, Ø22, ØØ8, 235 3441 : 233, ØØ0, 141, Ø21, ØØ8, Ø78, 1Ø8 3453 : Ø20, ØØ8, Ø78, Ø20, ØØ8, Ø78, 1Ø8 3453 : Ø20, ØØ8, Ø78, Ø20, ØØ8, Ø78, 1Ø8 3453 : ØØ5, Ø21, Ø56, 233, Ø47, Ø74, Ø55 3465 : Ø74, Ø74, 141, Ø19, ØØ8, 173, 114 3471 : Ø19, ØØ8, Ø10, 168, 185, Ø21, Ø42 3477 : Ø20, Ø24, 109, Ø20, ØØ8, 133, 207 3483 : 251, 185, Ø22, Ø20, 185, Ø00, 226 3495 : Ø20, 168, 177, 251, 201, Ø32, 248 3501 : 208, Ø14, 232, 224, Ø12, 208, Ø47 3507 : 241, Ø32, Ø99, Ø16, 176, ØØ7, 238 3513 : 174, Ø30, Ø08, Ø96, Ø76, 136, 193 3519 : Ø14, 172, Ø21, ØØ8, 208, Ø87, 172, Ø96 3531 : Ø21, ØØ8, 165, 212, Ø20, 201, Ø87 3543 : ØØ1, 208, Ø03, Ø76, 101, Ø14, 106 3549 : 201, Ø02, 208, Ø23, 169, Ø01, Ø57 3555 : 153, 212, Ø20, 185, 220, Ø20, 013 3561 : Ø45, Ø21, 208, 141, Ø21, 208, 109 3579 : 189, ØØ5, Ø21, 205, ØØ5, Ø21, 185 3585 : 176, 101, Ø14, 152, Ø10, 170, ØØ0 3591 : Ø02, 153, 212, 020, 169, Ø163, 027 3559 : 153, 212, Ø20, 169, Ø163, 027 3559 : 153, 212, Ø20, 169, Ø164, 152 3603 : 153, Ø24, Ø21, 152, Ø10, 166, Ø35 3669 : 169, ØØ0, 553, Ø31, ØØ8, 153, Ø27 3615 : Ø47, Ø88, 173, Ø20, Ø88, 100, Ø41 3621 : 168, 174, Ø30, Ø88, 173, Ø33, 111 3627 : Ø14, 168, 185, 212, Ø20, 208, 122 363 : 249, Ø31, Ø88, 153, Ø31, ØØ8, 660 3645 : 157, Ø31, Ø88, 9157, Ø47, 141 3657 : Ø74, 168, 185, 212, Ø20, 208, 172 3663 : 621, 172, Ø34, Ø21, 173, Ø30, Ø88, 212 3664 : 169, ØØ0, 656, 253, Ø31, Ø08, 921 3665, 253, Ø47, Ø88, 157, Ø47, 148 3681 : Ø88, 153, Ø47, Ø88, 157, Ø47, 148 3681 : Ø88, 153, Ø47, Ø88, 157, Ø47, 148 3687 : Ø24, Ø12, 201, Ø02, 240, Ø11, Ø47 3699 : 221, Ø33, 249, Ø31, Ø76, 221, Ø40, 226 3759 : 128, Ø20, Ø86, 170, 744, 168, 169, 700 371 : 091, 012, Ø96, 201, Ø07, 240,	3429	:189.004.021.056.233.024.116
 3441 :233,000,141,021,008,078,082 3447 :021,000,110,020,008,078,108 3453 :202,008,078,020,008,173,114 3471 :019,008,010,168,185,021,042 3477 :020,024,109,020,008,133,207 3483 :251,185,022,020,105,000,226 3489 :133,252,162,000,189,009,138 3495 :020,168,177,251,201,032,248 3501 :208,014,232,224,012,208,047 3507 :241,033,099,016,176,007,238 3513 :174,030,008,076,136,193 3519 :014,172,021,008,240,011,145 3525 :172,020,008,200,087,172,192 3537 :020,008,185,212,020,201,087 3543 :001,208,003,076,101,014,106 3549 :201,002,208,023,169,001,057 3555 :153,212,020,165,200,014 3561 :045,021,208,141,021,208,109 3567 :206,229,020,033,189,015,169,205 3591 :002,153,12,020,169,015,169,205 3591 :002,153,12,020,169,015,066 3597 :153,244,007,185,037,021,152 3603 :153,024,021,205,005,021,185 3585 :176,003,076,021,015,169,205 3591 :002,153,031,008,153,027 3615 :047,008,173,030,110,308,153,027 3643 :153,024,021,152,010,168,035 3609 :169,000,553,031,008,153,027 363 :249,031,008,153,031,008,017 363 :249,031,008,153,031,008,017 363 :249,031,008,153,031,008,017 363 :249,031,008,153,031,008,017 364 :008,153,047,008,153,031,008,017 365 :167,031,008,053,031,008,021 366 :056,253,047,008,157,047,118 367 :008,169,047,056,124,040,055 3687 :008,163,047,008,157,047,118 364 :008,153,047,008,153,031,008,055 366 :056,253,047,008,157,047,118 365 :240,009,076,220,01,007,220,010 364,009,076,200,01,01,014,192 365 :240,009,076,200,01,01,014,192 365 :240,009,076,200,01,000,240,005 372 :200,208,009,169,000,055 374 :008,169,047,068,157,047,131 374 :008,070,01,01,012,020,011,002,240,005 375 :212,020,211,020,211,003,213 374 :008,020,010,		
3447 :021,008,110,020,008,078,108 3459 :020,000,078,020,008,189,192 3459 :005,021,056,233,047,074,055 3465 :074,074,141,019,008,173,114 3471 :019,008,010,168,185,021,042 3477 :020,024,109,020,008,133,207 3483 :251,185,022,020,105,000,226 3489 :133,252,162,000,189,009,138 3501 :208,014,232,224,012,208,047 3507 :241,032,099,016,176,007,238 3513 :174,030,008,096,076,136,193 3519 :014,172,01,008,240,011,145 3525 :172,020,008,185,212,020,201,087 3543 :001,208,043,076,110,014,106 3549 :201,002,208,023,169,001,057 3555 :153,212,020,185,220,020,013 3661 :045,021,205,005,021,185 3573 :076,101,014,152,010,170,000 3579 :189,005,021,205,005,021,185 3573 :076,001,53,031,008,153,027 361 :042,003,766,01,01,014,160 3579 :189,005,021,205,005,021,185 3573 :076,000,153,031,008,016,010 3573 :076,000,153,031,008,017,033,011 3574 :020	3435	:141,020,000,105,022,000,255
3447 :021,008,110,020,008,078,108 3459 :020,000,078,020,008,189,192 3459 :005,021,056,233,047,074,055 3465 :074,074,141,019,008,173,114 3471 :019,008,010,168,185,021,042 3477 :020,024,109,020,008,133,207 3483 :251,185,022,020,105,000,226 3489 :133,252,162,000,189,009,138 3501 :208,014,232,224,012,208,047 3507 :241,032,099,016,176,007,238 3513 :174,030,008,096,076,136,193 3519 :014,172,01,008,240,011,145 3525 :172,020,008,185,212,020,201,087 3543 :001,208,043,076,110,014,106 3549 :201,002,208,023,169,001,057 3555 :153,212,020,185,220,020,013 3661 :045,021,205,005,021,185 3573 :076,101,014,152,010,170,000 3579 :189,005,021,205,005,021,185 3573 :076,001,53,031,008,153,027 361 :042,003,766,01,01,014,160 3579 :189,005,021,205,005,021,185 3573 :076,000,153,031,008,016,010 3573 :076,000,153,031,008,017,033,011 3574 :020	3441	:233.000.141.021.008.078.082
3453 :020,008,078,020,008,189,192 3459 :005,021,056,233,047,074,055 3465 :074,074,141,019,008,173,114 3471 :019,008,010,166,185,021,042 3477 :020,024,109,020,008,133,207 3483 :251,185,022,020,105,000,226 3489 :133,252,162,000,189,009,138 3495 :020,168,177,251,201,032,248 3501 :208,014,232,224,012,208,047 3507 :241,032,099,016,176,007,238 3513 :174,030,008,096,076,136,193 3519 :014,172,021,008,240,011,145 3525 :172,020,008,208,087,172,096 3531 :021,008,076,211,013,172,192 3537 :020,008,185,212,020,201,087 3543 :001,208,003,076,011,014,106 3549 :201,002,208,023,169,001,057 3555 :153,212,020,185,220,020,013 3561 :045,021,208,042,169,001,057 3555 :153,212,020,185,220,020,013 3561 :045,021,208,042,181,015,154 3573 :076,101,014,152,010,170,000 3579 :189,005,021,205,005,021,185 3585 :176,003,076,021,015,164,035 3609 :169,000,153,031,008,153,027 3615 :047,008,173,020,008,010,041 3621 :168,174,030,008,173,03,111 3627 :021,048,021,169,000,056,102 363 :249,031,008,153,031,008,017 3639 :169,000,553,031,008,017 3639 :169,000,553,031,008,017 3639 :169,000,056,253,031,008,017 3639 :169,000,056,253,031,008,017 3639 :169,000,056,253,031,008,017 3639 :169,000,056,253,031,008,017 3639 :169,000,056,253,031,008,017 3639 :169,000,056,253,031,008,017 3645 :157,031,008,015,031,008,017 3657 :074,168,185,212,020,208,172 3651 :140,034,021,173,033,108,005 3645 :157,031,008,015,031,008,017 3659 :169,000,056,253,031,008,017 3657 :074,168,185,212,020,208,172 3651 :240,009,076,206,011,014,192 3651 :240,009,076,206,011,014,192 3651 :240,009,076,206,011,014,192 3651 :240,009,076,206,011,014,192 3651 :240,009,076,206,011,014,192 3723 :024,201,002,240,011,047 3699 :241,003,240,012,210,002,240,011,047 3747 :008,076,101,014,169,000,013 3747 :008,076,101,014,169,000,013 3747 :008,076,101,014,169,000,013 3747 :008,076,101,014,169,000,013 3747 :008,076,101,014,169,000,013 3747 :008,076,101,014,169,000,013 3747 :008,076,101,014,169,000,013 3747 :001,022,020,011,202,011,002,204 3753 :133,162,165,162,201,002,226 3759 :208,250,096,202,011,105,131 3777 :01	201022	
3459 :005,021,056,233,047,074,055 3465 :074,074,141,019,008,173,114 3471 :019,008,010,168,185,021,042 3477 :020,024,109,020,008,133,207 3483 :251,185,022,020,105,000,226 3489 :133,252,162,000,189,009,0183 3495 :200,168,177,251,201,032,248 3501 :208,014,232,224,012,208,047 3507 :241,033,099,016,176,007,238 3513 :174,030,008,096,076,136,193 3519 :014,172,021,008,240,011,145 3525 :172,020,008,208,087,172,096 3531 :021,008,076,211,013,172,192 3537 :200,008,185,212,020,001,087 3543 :001,208,003,076,101,014,106 3543 :001,208,003,076,011,01,014,106 3543 :001,208,003,076,021,015,169,005 357 :189,005,021,205,005,021,185 3585 :176,003,076,021,015,169,015,066 3597 :189,005,021,05,031,008,153,027 3615 :047,008,173,020,008,010,041 3609 :169,000,153,031,008,173,033,111 3627 :189,005,021,015,010,168,035 3699 :169,000,556,253,031,008,0170 363<	3441	
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3465 : 074, 074, 141, 019, 008, 173, 114 3471 : 019, 000, 010, 168, 185, 021, 042 3483 : 251, 185, 022, 020, 105, 000, 226 3489 : 133, 252, 162, 000, 189, 009, 138 3495 : 020, 168, 177, 251, 201, 032, 248 3501 : 208, 014, 232, 224, 012, 208, 047 3507 : 241, 032, 099, 016, 176, 007, 238 3513 : 174, 030, 008, 096, 076, 136, 193 3519 : 014, 172, 021, 008, 240, 011, 145 3525 : 172, 020, 008, 185, 212, 020, 201, 087 3543 : 001, 208, 003, 076, 101, 014, 106 3549 : 201, 002, 208, 023, 169, 001, 057 3555 : 153, 212, 020, 185, 220, 020, 033 3561 : 045, 021, 208, 141, 021, 208, 109 3577 : 1206, 229, 020, 032, 181, 015, 154 3573 : 076, 101, 014, 152, 010, 170, 000 3579 : 189, 005, 021, 205, 005, 021, 185 3585 : 176, 003, 076, 021, 015, 169, 205 3591 : 602, 153, 212, 020, 169, 015, 066 3597 : 153, 248, 007, 185, 037, 021, 152 3603 : 153, 024, 021, 152, 010, 166, 035 3609 : 169, 000, 153, 031, 008, 153, 027 3615 : 047, 008, 173, 020, 008, 100, 011 3621 : 168, 174, 030, 008, 173, 033, 111 3627 : 021, 048, 021, 169, 000, 056, 112 363 : 249, 031, 068, 153, 031, 008, 021 3645 : 157, 031, 068, 076, 101, 014, 192 3651 : 144, 034, 021, 173, 030, 008, 217 3663 : 021, 172, 034, 021, 169, 000, 240 3645 : 157, 031, 068, 076, 101, 014, 192 3651 : 144, 034, 021, 173, 030, 008, 217 3663 : 021, 172, 034, 021, 169, 000, 240 3669 : 056, 253, 047, 008, 173, 031, 008, 163 367 : 068, 169, 000, 566, 249, 047, 108 3681 : 008, 153, 047, 008, 174, 030, 008 373 : 240, 009, 076, 206, 011, 076, 227 3711 : 239, 011, 076, 201, 002, 240, 011, 047 369 : 240, 002, 240, 012, 201, 002, 240, 011 3747 : 008, 076, 120, 008, 157, 047, 114 3675 : 208, 169, 000, 566, 249, 047, 108 3687 : 208, 173, 018, 008, 201, 001, 200 373 : 242, 201, 005, 144, 020, 173, 194 3749 : 008, 076, 120, 008, 157, 047, 118 3771 : 013, 155, 012, 170, 012, 202, 211 3771 : 013, 155, 012, 170, 012, 202, 211 3783 : 012, 202, 011, 202, 011, 202, 011 3743 : 002, 189, 001, 021, 221, 063, 214 3807 : 253, 202, 208, 250, 096, 162, 114 3813 : 002, 18	3459	
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3681 :008,153,047,008,174,030,005 3687 :008,173,018,008,201,001,000 3693 :240,012,201,002,240,011,047 3699 :201,003,240,010,201,004,006 3705 :240,009,076,206,011,076,227 3711 :239,011,076,021,012,076,050 3717 :091,012,096,201,000,240,005 3723 :024,201,005,144,020,173,194 3729 :030,008,170,074,168,185,012 3735 :212,020,208,009,169,000,001 3741 :056,253,047,008,157,047,213 3747 :008,076,101,014,169,000,019 3753 :133,162,165,162,201,002,226 3759 :208,250,096,202,011,196,114 3765 :012,210,012,202,011,015,131 3771 :013,155,012,170,012,202,239 3777 :011,049,013,176,012,190,132 3783 :012,202,011,202,011,015,131 3795 :000,169,019,056,237,229,153 3801 :020,170,160,000,136,208,143 3807 :253,202,208,250,096,162,114 3813 :002,189,001,021,221,063,214 3819 :008,240,005,176,009,076,237 3825 :006,015,202,048,016,076,092 3831 :230,014,162,008,232,224,190		
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3717 :Ø91,012,096,201,000,240,005 3723 :Ø24,201,005,144,020,173,194 3729 :Ø30,008,170,074,168,185,012 3735 :212,020,208,009,169,000,001 3741 :Ø56,253,047,008,157,047,213 3747 :Ø08,076,101,014,169,000,019 3753 :133,162,165,162,201,002,226 3759 :208,250,096,202,011,196,114 3765 :012,210,012,202,011,015,131 3771 :013,155,012,170,012,202,239 3777 :011,049,013,176,012,190,132 3783 :012,202,011,202,011,202,071 3789 :011,202,011,202,011,013,143 3795 :000,169,019,056,237,229,153 3801 :020,170,160,000,136,208,143 3807 :253,202,208,250,096,162,114 3813 :002,189,001,021,221,063,214 3819 :008,240,005,176,009,076,237 3825 :006,015,202,048,016,076,092 3831 :230,014,162,000,189,001,075 3837 :021,157,063,008,232,224,190		
3723 :024,201,005,144,020,173,194 3729 :030,008,170,074,168,185,012 3735 :212,020,208,009,169,000,001 3741 :056,253,047,008,157,047,213 3747 :008,076,101,014,169,000,019 3753 :133,162,165,162,201,002,226 3759 :208,250,096,202,011,196,114 3765 :012,210,012,202,011,015,131 3771 :013,155,012,170,012,202,239 3777 :011,049,013,176,012,190,132 3783 :012,202,011,202,011,202,071 3789 :011,202,011,202,011,013,143 3795 :000,169,019,056,237,229,153 3801 :020,170,160,000,136,208,143 3807 :253,202,208,250,096,162,114 3813 :002,189,001,021,221,063,214 3819 :008,240,005,176,009,076,237 3825 :006,015,202,048,016,076,092 3831 :230,014,162,008,232,224,190		
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3735:212,020,208,009,169,000,0013741:056,253,047,008,157,047,2133747:008,076,101,014,169,000,0193753:133,162,165,162,201,002,2263759:208,250,096,202,011,196,1143765:012,210,012,202,011,015,1313771:013,155,012,170,012,202,2393777:011,049,013,176,012,190,1323783:012,202,011,202,011,202,0713789:011,202,011,202,011,013,1433795:000,169,019,056,237,229,1533801:020,170,160,000,136,208,1433807:253,202,208,250,096,162,1143813:002,189,001,021,221,063,2143819:008,240,005,176,009,076,2373825:006,015,202,048,016,076,0923831:230,014,162,000,189,001,0753837:021,157,063,008,232,224,190	2720	
3741 :056,253,047,008,157,047,213 3747 :008,076,101,014,169,000,019 3753 :133,162,165,162,201,002,226 3759 :208,250,096,202,011,196,114 3765 :012,210,012,202,011,015,131 3771 :013,155,012,170,012,202,239 3777 :011,049,013,176,012,190,132 3783 :012,202,011,202,011,202,071 3789 :011,202,011,202,011,013,143 3795 :000,169,019,056,237,229,153 3801 :020,170,160,000,136,208,143 3807 :253,202,208,250,096,162,114 3813 :002,189,001,021,221,063,214 3819 :008,240,005,176,009,076,237 3825 :006,015,202,048,016,076,092 3831 :230,014,162,000,189,001,075 3837 :021,157,063,008,232,224,190		
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3753:133,162,165,162,201,002,2263759:208,250,096,202,011,196,1143765:012,210,012,202,011,015,1313771:013,155,012,170,012,202,2393777:011,049,013,176,012,190,1323783:012,202,011,202,011,202,0713789:011,202,011,202,011,013,1433795:000,169,019,056,237,229,1533801:020,170,160,000,136,208,1433807:253,202,208,250,096,162,1143813:002,189,001,021,221,063,2143819:008,240,005,176,009,076,2373825:006,015,202,048,016,076,0923831:230,014,162,000,189,001,0753837:021,157,063,008,232,224,190		
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3765:Ø12,210,Ø12,202,Ø11,Ø15,1313771:Ø13,155,Ø12,170,Ø12,202,2393777:Ø11,Ø49,Ø13,176,Ø12,190,1323783:Ø12,202,Ø11,202,Ø11,202,Ø713789:Ø11,202,Ø11,202,Ø11,Ø13,1433795:ØØ0,169,Ø19,Ø56,237,229,1533801:Ø20,170,160,Ø00,136,208,1433807:253,202,208,250,Ø96,162,1143813:Ø02,189,Ø01,Ø21,221,Ø63,2143819:ØØ8,240,Ø05,176,Ø09,Ø76,2373825:ØØ6,Ø15,202,Ø48,Ø16,Ø76,Ø923831:230,Ø14,162,Ø00,189,Ø01,Ø753837:Ø21,157,Ø63,Ø08,232,224,190	3753	
3765:Ø12,210,Ø12,202,Ø11,Ø15,1313771:Ø13,155,Ø12,170,Ø12,202,2393777:Ø11,Ø49,Ø13,176,Ø12,190,1323783:Ø12,202,Ø11,202,Ø11,202,Ø713789:Ø11,202,Ø11,202,Ø11,Ø13,1433795:ØØ0,169,Ø19,Ø56,237,229,1533801:Ø20,170,160,Ø00,136,208,1433807:253,202,208,250,Ø96,162,1143813:Ø02,189,Ø01,Ø21,221,Ø63,2143819:ØØ8,240,Ø05,176,Ø09,Ø76,2373825:ØØ6,Ø15,202,Ø48,Ø16,Ø76,Ø923831:230,Ø14,162,Ø00,189,Ø01,Ø753837:Ø21,157,Ø63,Ø08,232,224,190	3759	:208,250,096,202,011,196,114
3771 :013,155,012,170,012,202,239 3777 :011,049,013,176,012,190,132 3783 :012,202,011,202,011,202,071 3789 :011,202,011,202,011,013,143 3795 :000,169,019,056,237,229,153 3801 :020,170,160,000,136,208,143 3807 :253,202,208,250,096,162,114 3813 :002,189,001,021,221,063,214 3819 :008,240,005,176,009,076,237 3825 :006,015,202,048,016,076,092 3831 :230,014,162,000,189,001,075 3837 :021,157,063,008,232,224,190		
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3807 :253,202,208,250,096,162,114 3813 :002,189,001,021,221,063,214 3819 :008,240,005,176,009,076,237 3825 :006,015,202,048,016,076,092 3831 :230,014,162,000,189,001,075 3837 :021,157,063,008,232,224,190		
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3927	:039,208,169,000,141,035,167
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3939	:008,141,047,008,096,162,049
3945	:008,169,000,029,022,008,085
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4041	:002,141,002,021,173,003,031
4047	:021,105,000,141,003,021,242
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4173	:074,074,074,074,024,105,246
4179	:176,157,203,007,173,001,032
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4221	:201,001,208,003,076,021,123
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4233	:020,189,005,021,141,210,211
4239	:020,185,022,008,141,209,216
4245	:020,173,030,008,170,074,112
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4311	:141,209,020,056,173,208,254
4317	:020,233,025,141,019,008,155
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4335	:021,205,210,020,176,013,116
4341	:056,173,210,020,253,005,194
4347	:021,141,210,020,076,012,219
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4365	:210,020,201,017,144,016,109
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4377	:204,211,020,240,003,076,011
4383	:108,016,024,096,173,208,144
4389	:020,205,210,020,176,007,163
10.0	:169,128,141,033,021,056,079
4395	
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4407	:056,096,160,000,169,238,006
4413	:133,251,169,018,133,252,249
4419	:177,251,240,010,032,210,219
4425	:255,200,208,246,230,252,184
4431	:208,242,173,063,008,141,146
4437	:001,021,173,064,008,141,237
4443	:002,021,173,065,008,141,245
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4467	:141,002,021,141,003,021,188
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4491	:224,000,240,111,165,162,017
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4521	:240,039,201,005,240,048,174
	201 006 240 062 160 040,174
4527	:201,006,240,062,169,040,125
4533	:153,004,021,169,166,153,079
4539	:005,021,169,001,157,022,050
4545	:008,076,008,018,169,175,135
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4563	:045,153,004,021,169,078,169
4569	:153,005,021,076,008,018,242
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	:109,040,155,004,021,109,011
4581	:078,153,005,021,169,001,144
4587	:157,022,008,076,008,018,012
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4599	:166,153,005,021,076,008,164
4605	·618 169 175 152 664 601 605
	:018,169,175,153,004,021,025
4611	:169,222,153,005,021,140,201
4617	:030,008,152,072,138,072,225
4623	:032,099,016,008,104,141,159
4629	:020,008,104,170,104,168,083
4635	:173,020,008,072,040,144,228
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4647	:157,022,008,153,005,021,149
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4659	+173 027 212 040 00E 1C0 172
	:173,027,212,048,005,169,173
4665	:015,076,063,018,169,241,127

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4671	:153,031,008,169,004,153,069
4677	:047,008,104,096,173,000,241
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4689	:147,032,210,255,032,057,046
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1000	
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4743	:005,011,180,004,011,001,091
4749	:000,003,180,004,007,071,150
4755	:005,007,152,005,007,012,079
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4983 4989 5001 5007 5013 5019 5025 5031 5037	:029,067,068,071,072,071,235 :072,071,072,071,072,071,036 :072,067,068,013,013,013,115 :013,013,070,069,070,069,179 :070,069,070,065,066,029,250 :029,029,029,029,029,029,061 :029,029,029,029,029,029,067 :029,029,029,029,029,029,073 :029,029,029,065,066,069,192 :070,069,070,069,070,069,072 :072,071,072,071,072,071,090 :072,067,068,029,029,029,217 :029,029,029,029,029,029,103
4983 4989 5001 5007 5013 5019 5025 5031 5037 5043	:029,067,068,071,072,071,235 :072,071,072,071,072,071,036 :072,067,068,013,013,013,115 :013,013,070,069,070,069,179 :070,069,070,065,066,029,250 :029,029,029,029,029,029,061 :029,029,029,029,029,029,067 :029,029,029,029,029,029,073 :029,029,029,065,066,069,192 :070,069,070,069,070,069,072 :072,071,072,071,072,071,090 :072,067,068,029,029,029,217 :029,029,029,029,029,029,103
4983 4989 5001 5007 5013 5019 5025 5031 5037 5043 5049 5055	:029,067,068,071,072,071,235 :072,071,072,071,072,071,036 :072,067,068,013,013,013,115 :013,013,070,069,070,069,179 :070,069,070,065,066,029,250 :029,029,029,029,029,029,061 :029,029,029,029,029,029,067 :029,029,029,029,029,029,073 :029,029,029,065,066,069,192 :070,069,070,069,070,069,072 :072,071,072,071,072,071,090 :072,067,068,029,029,029,217 :029,029,029,029,029,029,103 :029,029,029,029,029,029,029,109
4983 4989 5001 5007 5013 5019 5025 5031 5037 5043 5049 5055 5061	:029,067,068,071,072,071,235 :072,071,072,071,072,071,036 :072,067,068,013,013,013,115 :013,013,070,069,070,069,179 :070,069,070,065,066,029,250 :029,029,029,029,029,029,029,061 :029,029,029,029,029,029,029,067 :029,029,029,029,029,029,073 :029,029,029,065,066,069,192 :070,069,070,069,070,069,072 :072,071,072,071,072,071,090 :072,067,068,029,029,029,103 :029,029,029,029,029,029,103 :029,029,029,029,029,029,109 :029,029,029,029,029,029,109
4983 4989 5001 5007 5013 5019 5025 5031 5037 5043 5049 5055 5061 5067	:029,067,068,071,072,071,235 :072,071,072,071,072,071,036 :072,067,068,013,013,013,115 :013,013,070,069,070,069,179 :070,069,070,065,066,029,250 :029,029,029,029,029,029,029,061 :029,029,029,029,029,029,029,067 :029,029,029,029,029,029,073 :029,029,029,065,066,069,192 :070,069,070,069,070,069,072 :072,071,072,071,072,071,090 :072,067,068,029,029,029,103 :029,029,029,029,029,029,109 :029,029,029,029,029,029,109 :029,029,029,029,029,029,109 :029,029,029,029,029,029,115 :029,067,068,071,072,071,069
4983 4989 5001 5007 5013 5019 5025 5031 5037 5043 5049 5055 5061 5067 5073	:029,067,068,071,072,071,235 :072,071,072,071,072,071,036 :072,067,068,013,013,013,115 :013,013,070,069,070,069,179 :070,069,070,065,066,029,250 :029,029,029,029,029,029,061 :029,029,029,029,029,029,067 :029,029,029,029,029,029,073 :029,029,029,065,066,069,192 :070,069,070,069,070,069,072 :072,071,072,071,072,071,090 :072,067,068,029,029,029,103 :029,029,029,029,029,029,103 :029,029,029,029,029,029,109 :029,029,029,029,029,029,109 :029,029,029,029,029,029,109 :029,029,029,029,029,029,109 :029,029,029,029,029,029,109 :029,029,029,029,029,029,029,115 :029,067,068,071,072,071,069 :072,071,072,071,013,013,009
4983 4989 5001 5007 5013 5019 5025 5031 5037 5043 5049 5055 5061 5067	:029,067,068,071,072,071,235 :072,071,072,071,072,071,036 :072,067,068,013,013,013,115 :013,013,070,069,070,069,179 :070,069,070,065,066,029,250 :029,029,029,029,029,029,029,061 :029,029,029,029,029,029,029,067 :029,029,029,029,029,029,073 :029,029,029,065,066,069,192 :070,069,070,069,070,069,072 :072,071,072,071,072,071,090 :072,067,068,029,029,029,103 :029,029,029,029,029,029,109 :029,029,029,029,029,029,109 :029,029,029,029,029,029,109 :029,029,029,029,029,029,115 :029,067,068,071,072,071,069



FAOE		
5085	:067,079,082,069,058,032,096	
5Ø91	:048,048,048,048,048,048,048,003	
5097	:032,072,073,071,072,032,073	
5103	:083,067,079,082,069,058,165	
5109	:032,048,048,048,048,048,048,005	
5115	:048,032,146,064,064,018,111	
5121	:032,032,032,032,146,149,168	
5127	:019,000,000,001,002,003,032	
5133	:040,041,042,043,080,081,084	
5139	:082,083,000,004,040,004,232	
5145	:080,004,120,004,160,004,141	
5151	:200,004,240,004,024,005,252	
5157	:064,005,104,005,144,005,108	
5163	:184,005,224,005,008,006,219	
E 7 9 9		
5169	:048,006,088,006,128,006,075	
5175	:168,006,208,006,248,006,185	
10 C 10 C		
5181	:032,007,072,007,112,007,042	
5187	:152,007,192,007,019,005,193	
5193	:017,017,017,017,017,017,017,175	
5199	:029,029,029,029,029,029,029,253	
5205	:029,029,029,073,074,032,095	
5211	:032,075,076,032,032,077,159	
10101010		
5217	:078,032,032,079,080,032,174	
5223	:032,075,076,032,032,079,173	
5229	:080,013,029,029,029,029,029,062	
1000		
5235	:029,029,029,029,029,029,081,085	
5241	:082,032,032,083,084,032,210	
5247	:032,085,086,032,032,087,225	
1000		
5253	:088,032,032,083,084,032,228	
5259	:032,087,088,013,029,029,161	
5265	:029,029,029,029,029,029,029,063	
5271	:029,089,090,032,032,091,002	
5277	:092,032,032,093,094,032,020	
5283	:032,095,033,032,032,091,222	
5289	:092,032,032,095,033,013,210	
5295	:029,029,029,029,029,029,029,093	
53Ø1	:029,029,029,034,035,032,113	
200		
5307	:032,036,037,032,032,038,138	
5313	:039,032,032,040,041,032,153	
5319	:032,036,037,032,032,040,152	
5325	:041,013,000,070,000,050,123	
5331	:003,000,000,002,000,000,216	
5337	:000,000,000,254,253,251,207	
	-247 220 222 101 127 002 229	
5343	:247,239,223,191,127,002,228	
5349	:003,010,020,030,040,050,126	
5355	:060,070,080,009,217,000,159	
5361	:043,161,000,000,000,000,189	
5367	:000,000,008,008,000,000,007	
5373	:000,000,000,007,000,016,020	
5379	:000,150,217,130,050,060,098	
5385	:222,000,000,000,000,000,231	
5391	:000,000,000,000,000,000,000,015	
5397	:000,000,000,000,000,000,056,077	
5403	:000,000,000,000,000,000,064,091	
5409	:000,000,000,000,120,120,017	
5415	:120,120,120,090,090,070,137	
5421	:080,000,192,000,000,000,061	
5427	:000,000,000,000,000,000,000,051	
5433	:000,000,001,240,000,003,045	
5439	:248,000,003,248,000,007,057	
5445	:248,000,015,240,006,007,073	
5451	:192,254,007,192,195,255,146	
5457	:192,063,255,192,000,007,022	
5463	:192,000,007,192,000,007,229	
5469	:192,057,255,220,065,255,113	
5475	:194,129,255,193,071,024,197	
5481	:226,056,231,028,000,000,134	
5487	:000,184,000,000,000,000,000,039	
5493	:000,000,000,000,000,015,132	

5499	:128,000,031,192,000,031,249
2	
5505	:192,000,031,224,000,015,079
5511	:240,000,003,224,096,003,189
5517	:224,127,003,255,195,003,180
5523	:255,252,003,224,000,003,116
5529	:224,000,003,224,000,059,151
5535	:255,156,067,255,130,131,129
5541	:255,129,071,024,226,056,158
5547	:231,028,000,000,000,184,102
5553	:000,000,000,000,000,000,000,177
5559	:000,000,000,000,127,000,054
5565	:000,062,000,000,028,000,023
5571	:000,028,000,000,028,000,251
5577	
	:000,028,000,000,062,000,035
5583	:000,062,000,000,127,000,140
5589	:000,127,000,000,255,128,211
5595	:001,255,192,003,255,224,125
56Ø1	:007,255,240,007,255,240,205
5607	:007,255,240,003,255,224,191
5613	:000,255,128,000,000,000,108
5619	:000,000,000,000,000,000,000,243
5625	
2000	:000,000,003,000,000,003,255
5631	:128,000,003,000,000,028,158
5637	:000,000,028,000,000,028,061
5643	:000,000,062,000,000,062,135
5649	:000,000,127,000,000,127,015
5655	:000,000,255,128,001,255,150
5661	:192,003,255,224,007,255,197
5667	:240,007,255,240,007,255,015
5673	:240,003,255,224,000,255,250
5679	:128,000,199,195,227,231,003
5685	:199,231,069,131,001,007,179
5691	:031,127,255,255,255,031,245
5697	:128,224,248,254,255,255,149
57Ø3	:255,248,007,007,007,007,090
5709	:007,007,031,031,224,224,089
5715	:224,224,224,224,248,248,195
5721	:255,255,252,240,224,224,003
5727	:192,192,255,255,063,015,043
5733	:007,007,003,003,128,128,121
5739	:128,128,128,128,128,255,234
5745	:001,001,001,001,001,001,119
5751	:001,255,128,064,063,032,150
5757	:032,032,032,032,032,004,008,009
5763	:240,016,016,016,016,016,016,195
5769	:003,004,008,008,008,008,008,176
100 C 100 C 100	
5775	:008,016,000,128,064,064,167
5781	:064,064,064,032,128,064,053
5787	:063,032,032,032,032,032,122
5793	:004,008,240,000,000,000,157
5799	:000,000,128,064,063,032,198
58Ø5	:032,032,032,032,000,000,045
5811	:224,016,008,004,004,004,183
5817	:032,032,032,032,032,032,032,121
5823	:032,063,016,016,016,016,094
5829	:016,016,032,192,016,016,229
5835	:016,016,016,032,032,063,122
5841	:032,032,032,032,032,032,016,129
5847	:016,240,032,032,032,032,087
5853	:032,032,032,032,032,000,000,093
5859	:000,000,000,000,000,000,227
5865	:032,032,032,032,032,032,032,169
5871	:032,032,004,004,004,004,004,063
5877	:004,004,004,004,032,032,069
5883	:032,032,032,032,032,032,032,187
5889	:032,016,016,016,016,016,016,113
5895	:016,016,032,032,032,032,167
59Ø1	:032,032,032,032,032,016,016,173
5907	:016,016,016,016,016,016,016,115
	and the second

5913	:032,032,032,032,032,032,032,217
5919	:032,032,112,016,016,016,255
5925	:016,016,016,016,032,032,165
5931	:032,032,032,032,032,032,032,235
5937	:000,000,000,000,000,000,000,049
5943	:000,000,004,004,004,004,004,071
5949	:004,004,004,004,032,032,141
5955	:032,032,032,063,064,128,162
5961	:016,016,016,016,016,240,137
5967	:008,004,032,032,032,032,219
5973	:032,032,064,128,016,016,117
5979	:016,016,016,016,008,004,167
5985	:032,032,032,032,032,063,064
5991	:064,128,016,016,016,016,103
5997	:016,240,008,004,032,032,185
6003	:032,032,032,063,064,128,210
6009	:004,004,004,008,016,224,125
6Ø15	:000,000,013,013,013,013,179

Budgeteer

(Article on page 76.)

BEFORE TYPING..

Before typing in programs, please refer to "How To Type COMPUTE!'s Gazette Programs," "A Beginner's Guide To Typing In Programs," and "The Automatic Proofreader" that appear before the Program Listings.

Program 1: Budgeteer—VIC Loader

- 1Ø T\$="{CLR}{2 SPACES}{GRN}{RVS} {OFF}* [RVS] {OFF} BUDGETEER {RVS} {OFF}* [RVS] {OFF}{BLU}" :rem 37
- 12 PRINTCHR\$(14)T\$:PRINT :rem 230
- 14 PRINT" USE THE PROGRAM TO [3 SPACES]REC ORD YOUR CHECKBOOK BALANCE AND ITS

:rem 93

16 PRINT"ALLOCATION INTO ONE TOTEN ACCOUN TS SHOWING {2 SPACES } INTENDED USE.

:rem 135

- 18 PRINT:PRINT" INCREASE BALANCE WITHDEPO SITS. :rem 100
- 20 PRINT: PRINT" WRITE CHECKS AGAINST ANY [SPACE]ACCOUNT. :rem 190
- 22 PRINT: PRINT TRANSFER FUNDS FROM {2 SPACES}ONE ACCOUNT TO ANY{4 SPACES} OTHER. :rem 157
- 23 PRINT" [HOME] [19 DOWN]" :rem 140
- 24 PRINT"INSTRUCTIONS?[2 SPACES]Y/N :rem 95
- 26 GETA\$:IFA\$=""THEN26
 :rem 243

 28 IFA\$="N"THEN118
 :rem 246
- 30 IFA\$<>"Y"THEN23 :rem 2
- 32 PRINTT\$:PRINT" AVAILABLE ACCOUNTS: ":PR INT :rem 215 34 PRINT" 1.HOUS-ING :rem 191 36 PRINT" 2.UTIL-ITIES :rem 97 38 PRINT" 3. INSU-RANCE :rem 8Ø 40 PRINT" 4.BANK: PMT OR SVGS :rem 160 42 PRINT" 5.MC/V:BANK CARDS :rem 208 44 PRINT" 6.VACA-TION :rem 253 46 PRINT" 7.MEDI-CAL :rem 154 48 PRINT" 8. BOOK: ENTERTAINMENT :rem 196
- 50 PRINT" 9.CHGE:STORE ACCTS :rem 199 52 PRINT"10.MISC-ELLANEOUS":PRINT:rem 143

34	PRINT II. CHER TOTAL BALANCE PRINT
	:rem 124
56	PRINT"FOR THE DATE, USE ANY FORMAT WIT
	HOUT COMMAS. ": GOSUB500 :rem 221
8Ø	PRINT"DEPOSITS ARE ADDED TO THE CHECKE
	OOK BALANCE AND THE MISC ACCOUNT. ": PRI
	NT :rem 35
82	PRINT"LEAVE THEM IN MISC OR TRANSFER T
	HEM TO OTHERACCOUNTS AS YOU WISH. ": PRI
1	NT :rem 147
84	PRINT YOU GET PROMPTS ALONG THE WAY. ":
	PRINT :rem 7
86	PRINT"YOU ARE PROTECTED MOSTOF THE TIM
	E AGAINST [3 SPACES] SLIP-UPS. ": PRINT
	:rem 127
88	PRINT"NEGATIVE BALANCES ARE ALLOWED FO
	R TEMPORARY CONVENIENCE. ": GOSUB500
	:rem 129
100	PRINT "WHEN YOU HAVE COMPLET-ED ALL YO
	UR TRANSACT- IONS, YOU WRITE NEW
	:rem 105
102	
100	PRINT "HAPPY CHECKBOOK AND [3 SPACES] BU
	DGET BALANCING!":PRINT :rem 232
108	PRINT: PRINT :rem 237
109	PRINT" [HOME] [9 DOWN]" :rem 23
110	PRINT "WOULD YOU LIKE TO RE- PEAT THE
	{SPACE]INSTRUCTIONS? :rem 212
112	
114	
116	
118	
	CHR\$(131) :rem 112
120	
	{SPACE}AREUSING A DISK DRIVE :rem 82
122	
	,I)):NEXT:POKE198,I:END :rem 140
500	PRINT: PRINT "MORE ? PRESS ANY KEY
	- :rem 229
502	POKE36878, 15: POKE36875, 240: FORM=1TO30
	Ø:NEXT:POKE36878,Ø:POKE36875,Ø
	:rem 210
504	GETAS . IFAS=""THEN504

506 PRINT"{CLR}"T\$:RETURN :rem 145

Program 2:

Budgeteer—VIC Main Program

- 2 X=Ø:REM MAKE X=Ø FOR TAPE,OR X=1 TO USE DISK :rem 87
- 3 T\$="{CLR}{2 SPACES}{GRN}{RVS} {OFF}* {RVS} {OFF} BUDGETEER {RVS} {OFF}*{RVS} {OFF}{BLU}":PRINTCHR\$(14);:POKE36878,1 5:S=36874 :rem 145
- 4 DIMA\$(11),A(11),B%(11):DEF FNR(X)=INT(X
 *100+.5)/100:PRINTT\$:PRINT:PRINT

:rem 203

- 5 PRINT:PRINT:INPUT"TODAY'S DATE";DD\$:PRI NT:GOTO20 :rem 51
- 6 PRINTT\$:PRINT"DATE: "D\$:PRINT"LAST AMT:\$ "A :rem 70
- 7 GOSUB12:PRINT:FORR=1T09:PRINT"{RED}"R" {LEFT}..{GRN}"A\$(R)"..\${BLU}"TAB(B*(R)) A(R):NEXT :rem 236
- 8 PRINT" {RED}10.. {GRN} "A\$(10)"..\${BLU}"TA B(B\$(10))A(10):PRINT :rem 245
- 9 PRINT"{RED}11..{GRN}"A\$(11)".\${BLU}"TAB
 (B\$(11))A(11):PRINT:RETURN :rem 230
- 10 POKES, 212: FORM=1T0150:NEXT: POKES, 0:FOR M=1T0100:NEXT :rem 211
- 11 POKES,201:FORM=1TO200:NEXT:POKES,0:RET URN :rem 95

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12 FORR=1T011 :rem 15 IFABS(A(R))=>1THENB%(R)=16-LEN(STR\$(IN 13 T(ABS(A(R))))) :rem 153 :rem 72 14 IFABS(A(R)) <1THENB%(R)=15 :rem 191 15 NEXT: RETURN 20 FORR=1TO11:READA\$(R):NEXT :rem 229 21 DATA"HOUS", "UTIL", "INSU", "BANK", "MC/V" :rem 238 DATA "VACA", "MEDI", "BOOK", "CHGE", "MISC" :rem 178 "CHBK" 25 GOSUB25Ø :rem 126 28 IF X THEN OPEN1,8,2, "Ø:CHBKFILE, READ": GOTO 37 :rem 220 PRINT"INSERT DATA CASSETTE{2 SPACES}AN 30 D REWIND TO READ [4 SPACES] BALANCES. :rem 159 31 POKES, 240: FORM=1TO300:NEXT: POKES, 0 :rem 75 :rem 127 32 PRINT: PRINT "READY? ... PRESS Y 33 GETAS: IFAS=""THEN33 :rem 239 34 IFA\$="N"THENEND :rem 48 35 IFA\$<>"Y"THEN3Ø :rem 5 36 OPEN1, 1, Ø, "CHBKFILE" :rem 45 FORR=1TO11: INPUT#1, A(R):NEXT: INPUT#1, D 37 S:CLOSE1 :rem 8Ø 4Ø GOSUB6 :rem 26 50 PRINT"TRANSACTION? {2 SPACES }Y/N": POKES ,245:FORM=1T0200:NEXT :rem 3Ø POKES, Ø:FORM=1TO100:NEXT:POKES,235:FOR 51 M=1TO200:NEXT:POKES,0 :rem 241 52 GETA\$: IFA\$=""THEN52 :rem 241 53 IFAS="Y"THEN70 :rem 2Ø4 54 IFAS="N"THEN180 :rem 244 55 GOSUB10:FORR=1TO3 :rem 2 PRINT" [HOME] [17 DOWN]"SPC(14)" 56 [3 SPACES]":FORM=1T0300:NEXT :rem 219 58 PRINT" [HOME] [17 DOWN] "SPC(14) "Y/N": FOR M=1TO300:NEXT :rem 179 59 NEXT:GOTO52 :rem 135 7Ø T=T+1:IFT=1THEND\$=DD\$:rem 179 PRINT" [HOME] [17 DOWN]MENU: T=ACCT TRAN 71 :rem 75 SFER 72 PRINTSPC(6) "C=WRITE CHECK :rem 238 73 PRINTSPC(6) "D=MAKE DEPOSIT :rem 61 80 GETAS: IFAS=""THEN80 :rem 243 81 IFA\$="C"THEN100 :rem 225 82 IFAS="D"THEN120 :rem 229 IFA\$="T"THEN140 :rem 248 83 GOSUB1Ø:FORR=1TO3 :rem 4 84 PRINT" [HOME] [17 DOWN] "SPC(6)" ":rem 35 85 PRINTSPC(6)" ":PRINTSPC(6)" ":FORM=1TO 86 300:NEXT :rem 175 88 PRINT" [HOME] [17 DOWN] "SPC(6)"T" :rem 250 89 PRINTSPC(6) "C":PRINTSPC(6) "D":FORM=1TO :rem 57 300:NEXT 90 NEXT:GOTO80 :rem 131 100 PRINT"AMT OF CHECK, ACCT #:":INPUTA, L :rem 222 101 IFL>100RL<10RL-INT(L)>0THENGOSUB10:PR INT" [2 UP]";:GOTO100 :rem 242 102 A(11) = FNR(A(11) - A) : A(L) = FNR(A(L) - A) : GOTO122 :rem 61 120 PRINT"AMT OF DEPOSIT: ": INPUTA :rem 56 121 L=10:A(11)=FNR(A(11)+A):A(L)=FNR(A(L):rem 86 +A) 122 GOSUB6:E=L:F=12:GOT0160 :rem 125 140 PRINT"AMT, FROM #, TO #:":INPUTA, A1, A2 :rem 191 141 XH=Ø:IFA1>1ØORA2>1ØORA1<1ORA2<1ORA1-I NT(A1)>ØORA2-INT(A2)>ØTHENXH=1:rem 40 142 IFXH=1THENGOSUB10:PRINT"{2 UP}";:GOTO 190 COMPUTE!'s Gazette November 1984

140 :rem 180 143 A(A1) = FNR(A(A1) - A) : A(A2) = FNR(A(A2) + A):rem 166 :rem 173 144 GOSUB6:E=A1:F=A2 160 IFE>7THENPRINT" [HOME] "SPC(100)SPC(86+ E*22-100) "*":GOTO162 :rem 150 161 PRINT" [HOME]"SPC(86+E*22)"*" :rem 141 162 IFF>7THENPRINT" [HOME] "SPC(100)SPC(86+ F*22-100) "*":GOTO164 :rem 156 163 PRINT" [HOME] "SPC(86+F*22) ** :rem 144 164 POKES, 232: FORM=1TO200:NEXT: POKES, 0:FO RM=1TO100:NEXT :rem 11 165 POKES, 232:FORM=1T0150:NEXT:POKES,0 :rem 135 166 FORM=1T0750:NEXT:PRINT" [HOME] [16 DOWN] ":GOTO5Ø :rem 253 180 IFT=0THEN200 :rem 170 181 Z=Ø:FORR=1T01Ø:Z=Z+A(R):NEXT :rem 249 :rem 153 182 IFABS(Z-A(11))=>.01THEN220 183 GOSUB 6:PRINT "ACCT BAL=CHBK BAL":GOSU B 25Ø :rem 188 184 IF X THEN OPEN1,8,2,"@0:CHBKFILE,WRIT E":GOTO191 :rem 239 185 PRINT"REWIND CASSETE TO{4 SPACES}WRIT E FILE.": POKES, 240: FORM=1TO300:NEXT: P OKES,Ø :rem 93 186 PRINT: PRINT "READY? ... PRESS Y :rem 57 187 GETA\$:IFA\$=""THEN187 :rem 99 188 IFA\$="N"THEN21Ø :rem 38 189 IFA\$ <> "Y"THEN184 :rem 121 190 OPEN1, 1, 1, "CHBKFILE" :rem 95 191 R\$=CHR\$(13):FORR=1TO11:PRINT#1,A(R);R \$; :NEXT :rem 122 192 PRINT#1, D\$; R\$; :CLOSE1 :rem 222 193 PRINTT\$:PRINT"DATE: "D\$:PRINT"HAD"T" T RANS. ": GOSUB7 :rem 132 194 PRINT"NEW FILE DONE. ": POKE36878, Ø: END :rem 51 200 GOSUB6 : PRINT "NO TRANSACTIONS. ": PRINT" FILE NOT CHANGED. ": END :rem 252 210 GOSUB6 : PRINT "BALANCES HAVE CHANGED. " :rem 73 211 PRINT"WRITE NEW FILE?" :rem 185 212 GETAS: IFAS=""THEN212 :rem 77 213 IFAS="N"THENEND :rem 95 214 IFA\$ <> "Y"THEN210 :rem 100 215 GOTO4Ø :rem 53 220 GOSUB6 : PRINT "ERROR - NO BALANCE. ": PRI NT"ACCT SUM="Z:PRINT"CHBK BALANCE="A(11) :rem 169 221 PRINT"DO YOU WISH TO": PRINT"CONTINUE? :rem 225 222 GETA\$:IFA\$=""THEN222 :rem 79 223 IFA\$="N"THENEND :rem 96 224 IFA\$ <> "Y"THEN220 :rem 102 225 GOTO4Ø :rem 54 250 PRINT"INSERT DATA DISK OR [3 SPACES]TA PE. READY? (ANY KEY)" :rem 81 251 GETA\$: IFA\$=""THEN251 :rem 83 253 RETURN :rem 122

Program 3: Budgeteer—64 Version

 100
 X=1:REM MAKE X=0
 FOR TAPE,OR X=1
 TO U

 SE DISK
 :rem 183

 105
 POKE 53280,12:POKE 53281,11:PRINTCHR\$

- (14) :rem 206 110 T\$="{CLR}{RVS}[7][13 SPACES}{OFF}[8] {2 SPACES}BUDGETEER{2 SPACES}{RVS}[7] {14 SPACES][8]" :rem 85 115 S=54272:FOR Q=S TO S+23:POKE Q,0:NEXT
- rem 66

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:rem 120

980 IF A\$<>"Y" THEN940

120 DIM A\$(11), A(11), B%(11): DEF FNR(X)=IN T(X*100+.5)/100:PRINT TS" [6 DOWN]" :rem 7Ø 130 PRINT "TODAY'S DATE"; : GOSUB1080: INPUT [SPACE]DD\$: PRINT : GOTO230 :rem 129 140 PRINT TS:PRINT"[8][2 SPACES]DATE:[5]" D\$:PRINT"[8][2 SPACES]LAST AMOUNT:\$ 853"A :rem 253 150 GOSUB190:PRINT:FOR R=1T09:PRINT" [2 SPACES][8]"R"{LEFT}.."A\$(R)"..\$[5] "TAB(B%(R))A(R):NEXT :rem 92 160 PRINT" {2 SPACES } [8]10.. "A\$(10)"...\$[5] "TAB(B%(10))A(10):PRINT :rem 46 170 PRINT" [2 SPACES] [8]11.. "A\$(11)".. \$[5] "TAB(B%(11))A(11):PRINT:RETURN:rem 77 190 FOR R=1TO11 :rem 7Ø 200 IF ABS(A(R))=>1 THEN B%(R)=32-LEN(STR (INT(ABS(A(R))))):rem 197 210 IF ABS(A(R)) <1 THEN B%(R)=31 :rem 116 220 NEXT: RETURN :rem 237 230 FOR R=1TO11:READ A\$(R):NEXT :rem 24 DATA "HOUSING.....", "UTILITIES..... 240 :rem 193 243 DATA"INSURANCE.....", "SERVICE CHARGE S" :rem 177 DATA "CREDIT [SHIFT-SPACE] CARDS ... " :rem 205 250 DATA "VACATION.....", "MEDICAL..... . 11 :rem 219 253 DATA "BOOKS&MAGAZINES", "STORE CHARGES. :rem 145 257 DATA"MISCELLANEOUS.. ", "TOTAL [SHIFT-SPACE]BALANCE.." :rem 130 :rem 223 27Ø GOSUB1Ø5Ø IF X THEN OPEN1,8,2, "Ø:CHBKFILE, READ" 280 :rem 58 :GOTO 35Ø PRINT"INSERT DATA CASSETTE AND REWIND 290 :rem 215 TO READ BALANCES. 300 PRINT: PRINT "READY? ... PRESS Y :rem 173 310 GET AS:IF AS="" THENSIO :rem 75 320 IF AS="N" THEN END :rem 94 330 IF A\$<>"Y" THEN290 :rem 107 34Ø OPEN1, 1, Ø, "CHBKFILE" :rem 91 35Ø FOR R=1TO11:INPUT#1,A(R):NEXT:INPUT#1 , D\$: CLOSE1 :rem 126 36Ø GOSUB14Ø :rem 174 370 PRINT"[8]TRANSACTION? [2 SPACES]Y/N" :rem 225 375 GOSUB1Ø8Ø :rem 232 380 GET AS:IF AS="" THEN380 :rem 89 390 IF A\$="Y" THEN450 :rem 5Ø 400 IF A\$="N" THEN740 :rem 33 41Ø GOSUB116Ø:FOR R=1TO3 :rem 148 420 PRINT" [HOME] [18 DOWN] "SPC(14)" [3 SPACES]":FOR M=1TO300:NEXT :rem 23 PRINT" [HOME] [18 DOWN] "SPC(14) "Y/N":FO 430 :rem 238 R M=1TO300:NEXT 440 NEXT: GOTO380 :rem 229 450 T=T+1: IF T=1 THEN D\$=DD\$:rem 229 PRINT" [HOME] [18 DOWN] MENU: T=ACCT TRA 46Ø :rem 142 NSFER PRINTSPC(6) "C=WRITE CHECK 470 :rem 32 480 PRINTSPC(6) "D=MAKE DEPOSIT :rem 111 485 GOSUB1080 :rem 234 490 GET AS: IF AS=""THEN490 :rem 93 500 IF AS="C"THEN590 :rem 26 510 IF A\$="D"THEN620 :rem 22 520 IF AS="T"THEN650 :rem 42 53Ø GOSUB116Ø:FOR R=1TO3 :rem 151 540 PRINT" [HOME] [18 DOWN] "SPC(6)" " :rem 96 550 PRINTSPC(6)" ":PRINTSPC(6)" ":FOR M=1

TO300:NEXT :rem 219 560 PRINT" [HOME] [18 DOWN] "SPC(6) "T" :rem 54 570 PRINTSPC(6) "C":PRINTSPC(6) "D":FOR M=1 TO300:NEXT :rem 100 580 NEXT: GOTO490 :rem 236 590 PRINT" [HOME] [21 DOWN]" :rem 231 591 PRINT"AMT OF CHECK, ACCT #";:GOSUB1080 INPUT A, L :rem 112 600 IF L>10 OR L<1 OR L-INT(L)>0 THEN GOS UB1160:GOT0590 :rem 2 A(11) = FNR(A(11) - A) : A(L) = FNR(A(L) - A) : G610 **OTO640** :rem 7Ø 620 PRINT: PRINT "AMT OF DEPOSIT" ; : GOSUB108 Ø:INPUT A :rem 136 630 L=10:A(11)=FNR(A(11)+A):A(L)=FNR(A(L))+A) :rem 91 64Ø GOSUB14Ø:E=L:F=12:GOTO69Ø :rem 233 650 PRINT" [HOME] [21 DOWN]" :rem 228 651 PRINT"AMT, FROM #, TO #";:GOSUB1080:INP UT A, AI, A2 :rem 74 653 IF Al>10 OR Al<1 OR A1-INT(A1)>0 THEN GOSUB1160:GOTO650 :rem 159 660 IF A2>10 OR A2<1 OR A2-INT(A2)>0 THEN GOSUB1160:GOTO650 :rem 161 670 A(A1) = FNR(A(A1) - A) : A(A2) = FNR(A(A2) + A):rem 171 68Ø GOSUB14Ø:E=A1:F=A2 :rem 17 690 IF E>6 THEN PRINT" [HOME] "SPC(255) SPC(198)SPC(E*40-255) **":GOTO710 :rem 242 700 PRINT" [HOME] "SPC(198) SPC(E*40) "*" :rem 204 710 IF F>6 THEN PRINT" [HOME] "SPC(255)SPC(198)SPC(F*40-255)"*":GOTO730 :rem 239 720 PRINT" [HOME] "SPC(198) SPC(F*40) "*" :rem 207 730 FOR M=1T0750:NEXT:PRINT" [HOME] {17 DOWN] ": GOTO 370 :rem 64 740 IF T=0 THEN870 :rem 185 75Ø Z=Ø:FOR R=1T01Ø:Z=Z+A(R):NEXT:rem 251 760 IF ABS(Z-A(11))=>.01 THEN940 :rem 164 770 GOSUB 140:PRINT"SUM OF ACCOUNTS=TOTAL BALANCE": GOSUB 1000 :rem 202 780 IF X THEN OPEN1, 8, 2, "@0: CHBKFILE, WRIT E":GOT084Ø :rem 242 790 PRINT: PRINT "READY? ... PRESS Y :rem 58 800 GET AS: IF AS=""THEN800 :rem 83 810 IF AS="N" THEN880 :rem 43 820 IF A\$<>"Y" THEN780 :rem 115 830 OPEN1, 1, 1, "CHBKFILE" :rem 96 84Ø R\$=CHR\$(13):FOR R=1TO11:PRINT#1,A(R); R\$;:NEXT :rem 123 850 PRINT#1, D\$; R\$; : CLOSE1 :rem 223 855 PRINT T\$:PRINT"DATE: "D\$:PRINT"HAD"T" [SPACE] TRANS. ": GOSUB150 :rem 232 860 PRINT "NEW FILE DONE. ": END :rem 94 870 GOSUBI40:PRINT NO TRANSACTIONS. ":PRIN T"FILE NOT CHANGED. ": END :rem 104 880 GOSUB140: PRINT "BALANCES HAVE CHANGED. :rem 181 890 PRINT"WRITE NEW FILE?" :rem 198 900 GET AS:IF AS="" THEN900 :rem 85 910 IF AS="N" THEN END :rem 99 920 IF A\$<>"Y" THEN880 :rem 117 93Ø GOTO36Ø :rem 110 935 GOSUB140:PRINT"ERROR - NO BALANCE. ":P RINT "ACCT SUM="Z :rem 219 940 PRINT"CHBK BALANCE="A(11) :rem 157 950 PRINT"DO YOU WISH TO CONTINUE?":rem 1 960 GET A\$:IF A\$="" THEN960 970 IF A\$="N" THENEND :rem 97 :rem 105

990 GOTO360 :rem 116 1000 PRINT"INSERT DATA DISK OR TAPE" :rem 247 1002 PRINT "PRESSING 'STOP' WILL ABORT SES SION" :rem 231 1005 PRINT" (TRANSACTIONS WILL BE LOST) :rem 96 1008 PRINT" ANY OTHER KEY WILL SAVE DATA. :rem 156 1009 GOSUB1080 :rem 19 1010 GET AS:IF AS="" THEN1010 :rem 167 1030 RETURN :rem 164 1050 PRINT"INSERT DATA DISK OR TAPE" :rem 252 1055 PRINT"PRESS ANY KEY TO LOAD DATA." :rem 133 1058 GOSUB1080 :rem 23 1060 GET AS:IF AS="" THEN1060 :rem 177 1070 RETURN :rem 168 1080 FOR Q=S TO S+22:POKE Q,0:NEXT :rem 165 1090 POKE S+5,0:POKE S+19,0 :rem 181 1095 POKE S+6,7:POKE S+20,7 :rem 193 1100 POKE S+24,15 :rem 103 1110 POKE S+4,33:POKES+18,19 :rem 28 1120 POKE S,0:POKE S+1,75 :rem 82 1130 POKE S+14,1:POKE S+15,75 :rem 25 1135 POKE S+4, 32: POKES+18, 18 :rem 33 1140 FOR Q=1T0150:NEXT :rem 3Ø 1150 POKE S+1,0:POKE S+15,0:RETURN :rem 196 1160 FOR Q=S TO S+22:POKE Q,0:NEXT :rem 164 1170 POKE S+5, 15: POKE S+12, 15 :rem 25 1175 POKE S+3,4:POKE3+10,4 :rem 150 1180 POKE S+24,6 :rem 63 1190 POKE S+4,65:POKES+18,65 :rem 42 1200 POKE S+1,12:POKE S+8,14 :rem 224 1210 FOR Q=1T0250:NEXT :rem 29 1220 POKE S+1,0:POKE S+8,0:RETURN:rem 148

Function Key

(Article on page 160.)

BEFORE TYPING...

Before typing in programs, please refer to "How To Type COMPUTE!'s Gazette Programs," "A Beginner's Guide To Typing In Programs," and "The Automatic Proofreader" that appear before the Program Listings.

Program 1: Function Key—64 Version

10	I=51/12:SH=INT(I/256):SL=I-SH*256	
	:rem 5	6
2Ø	READ A:CK=CK+A:IF A=256 THEN 40:rem 5	3
25	IF A<Ø THEN 100 :rem 9	9
	POKE I,A:I=I+1:GOTO 20 :rem 13	
4Ø	IFCK<>28195THENPRINT"ERROR IN DATA":S	T
	OP :rem 19	1
5Ø	PRINT"USE SYS"SH*256+SL+403"TO START"	:
	END :rem 15	
100	J IF A<-255 THEN A=ABS(A+256)+SH:GOTO	3
	Ø :rem 22	3
110	Ø A=ABS(A+1)+SL:GOTO3Ø :rem 11	6

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:rem 27
49152 DATA Ø,Ø,Ø,Ø,Ø,Ø
                                   :rem 33
49158 DATA Ø,Ø,Ø,Ø,Ø,Ø
                                   :rem 30
49164 DATA Ø,Ø,Ø,Ø,Ø,Ø
                                   :rem 27
49170 DATA 0,0,0,0,0,0
                                   :rem 33
49176 DATA 0,0,0,0,0,0
                                   :rem 30
49182 DATA 0,0,0,0,0,0
                                   :rem 36
49188 DATA Ø,Ø,Ø,Ø,Ø,Ø
49194 DATA Ø,Ø,Ø,Ø,Ø,Ø
                                   :rem 33
49200 DATA 0,0,0,0,0,0
                                   :rem 21
49206 DATA 0,0,0,0,0,0
                                   :rem 27
                                   :rem 24
49212 DATA 0,0,0,0,0,0
49218 DATA 0,0,0,0,0,0
                                   :rem 30
                                   :rem 27
49224 DATA Ø,Ø,Ø,Ø,Ø,Ø
49230 DATA 0,0,0,0,0,0
                                   :rem 24
49236 DATA 0,0,0,0,0,0
                                   :rem 30
49242 DATA Ø,Ø,Ø,Ø,Ø,Ø
                                   :rem 27
49248 DATA 0,0,0,0,0,0
                                   :rem 33
49254 DATA Ø,Ø,Ø,Ø,Ø,Ø
                                   :rem 30
49260 DATA 0,0,0,0,0,0
                                   :rem 27
49266 DATA Ø,Ø,Ø,Ø,Ø,Ø
                                   :rem 33
49272 DATA Ø,Ø,Ø,Ø,Ø,Ø
                                   :rem 30
49278 DATA Ø,Ø,Ø,173,-1,-256
                                   :rem 87
49284 DATA 240,30,166,198,224,11
                                   :rem 51
49290 DATA 176,24,168,185,-1,-256:rem 103
49296 DATA 240,15,157,119,2,230
                                 :rem 255
49302 DATA 198,238,-1,-256,173,-1 :rem 88
49308 DATA -256,41,15,208,3,141
                                 :rem 246
49314 DATA -1,-256,108,-146,-257,32
                                  :rem 180
49320 DATA 72,235,173,-1,-256,208 :rem 88
49326 DATA 34,165,157,240,30,165
                                   :rem 51
49332 DATA 212,208,26,166,198,202:rem 101
                                   :rem 51
49338 DATA 189,119,2,201,133,144
                                  :rem 250
49344 DATA 16,201,141,176,12,56
49350 DATA 233,133,10,10,10,10
                                  :rem 174
                                  :rem 152
49356 DATA 9,1,141,-1,-256,96
49362 DATA 166,122,189,0,2,201
                                  :rem 199
                                  :rem 220
49368 DATA 70,208,68,232,189,0
                                  :rem 197
49374 DATA 2,201,49,144,60,201
49380 DATA 57,176,59,41,15,168
                                  :rem 224
49386 DATA 185,-135,-257,168,232,189
                                   :rem 11
                                   :rem 40
49392 DATA 0,2,201,61,240,5
                                  :rem 149
49398 DATA 162,11,108,0,3,232
49404 DATA 189,0,2,201,13,240
                                  :rem 140
49410 DATA 15,201,95,208,2,169
                                  :rem 203
49416 DATA 13,153,-1,-256,200,152 :rem 77
                                  :rem 200
49422 DATA 41,15,208,233,169,0
49428 DATA 153,-1,-256,160,107,32 :rem 86
49434 DATA 47,241,108,2,3,108
                                  :rem 151
49440 DATA -144,-257,208,251,232,189
                                  :rem 247
49446 DATA 0,2,201,61,208,202
                                  :rem 139
49452 DATA 232,138,72,160,0,189
                                    :rem 3
                                   :rem 47
49458 DATA 0,2,201,44,240,8
49464 DATA 232,200,192,15,208,243 :rem 95
                                  :rem 201
49470 DATA 240,182,192,0,208,4
49476 DATA 162,8,208,176,232,189
                                   :rem 70
49482 DATA Ø,2,201,49,240,8
                                   :rem 49
49488 DATA 201, 56, 240, 4, 162, 9
                                  :rem 161
49494 DATA 208,160,41,15,170,152
                                   :rem 48
49500 DATA 72,160,0,138,32,186
                                  :rem 200
49506 DATA 255,104,168,104,170,152
                                   :rem 147
49512 DATA 160,2,32,189,255,162
                                     :rem Ø
49518 DATA -1,134,251,169,-256,133
                                   :rem 144
49524 DATA 252,160,-257,169,251,162
                                   :rem 202
49530 DATA -227,32,216,255,169,13 :rem 97
49536 DATA 32,210,255,76,116,164 :rem 53
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49542 DATA Ø,1,65,17,81,33 :rem 1 49548 DATA 97,49,113,124,165,49 :rem 22 49554 DATA 234,162,-256,173,5,3 :rem Ø 49560 DATA 201,-256,240,17,141,-145 :rem 182 :rem 45 49566 DATA -257,173,4,3,141,-144 49572 DATA -257,169,-211,141,4,3 :rem 42 49578 DATA 142,5,3,173,21,3 :rem 55 49584 DATA 201,-256,240,19,141,-147 :rem 192 49590 DATA -257,173,20,3,141,-146 :rem 90 49596 DATA -257,169,-130,120,141,20 :rem 190 :rem 102 49602 DATA 3,142,21,3,88,173 49608 DATA 144,2,201,-256,240,19 :rem 41 49614 DATA 141,-170,-256,173,143,2 :rem 136 49620 DATA 141,-169,-256,169,-168,120 :rem 39 49626 DATA 141, 143, 2, 142, 144, 2 :rem 195 49632 DATA 88,96,256 :rem 246

Program 2: Function Key—VIC Version

10 I=PEEK(55)+256*PEEK(56)-512:SH=INT(I/2 56):SL=I-SH*256 :rem 176 20 READ A:CK=CK+A:IF A=256 THEN 40:rem 53 :rem 99 25 IF A<Ø THEN 100 30 POKE I, A:I=I+1:GOTO 20 :rem 130 40 IFCK <> 28410 THENPRINT"ERROR IN DATA":ST :rem 181 OP 50 PRINT"USE SYS"SH*256+SL+403"TO START": POKE55, SL: POKE56, SH: END :rem 207 100 IF A<-255 THEN A=ABS(A+256)+SH:GOTO 3 :rem 223 :rem 116 110 A=ABS(A+1)+SL:GOTO30 49152 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 27 :rem 33 49158 DATA Ø,Ø,Ø,Ø,Ø,Ø 49164 DATA 0,0,0,0,0,0 :rem 30 49170 DATA 0,0,0,0,0,0 :rem 27 49176 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 33 :rem 3Ø 49182 DATA Ø,Ø,Ø,Ø,Ø,Ø 49188 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 36 49194 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 33 :rem 21 49200 DATA 0,0,0,0,0,0 49206 DATA 0,0,0,0,0,0 :rem 27 49212 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 24 :rem 3Ø 49218 DATA Ø,Ø,Ø,Ø,Ø,Ø 49224 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 27 49230 DATA 0,0,0,0,0,0 :rem 24 :rem 3Ø 49236 DATA Ø,Ø,Ø,Ø,Ø,Ø 49242 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 27 :rem 33 49248 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 30 49254 DATA Ø,Ø,Ø,Ø,Ø,Ø 49260 DATA 0,0,0,0,0,0 :rem 27 49266 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 33 49272 DATA Ø,Ø,Ø,Ø,Ø,Ø :rem 30 49278 DATA Ø,Ø,Ø,173,-1,-256 :rem 87 49284 DATA 240,30,166,198,224,11 :rem 51 49290 DATA 176,24,168,185,-1,-256:rem 103 49296 DATA 240,15,157,119,2,230 :rem 255 49302 DATA 198,238,-1,-256,173,-1 :rem 88 49308 DATA -256,41,15,208,3,141 :rem 246 49314 DATA -1,-256,108,-146,-257,32 :rem 180 49320 DATA 72,235,173,-1,-256,208 :rem 88 :rem 51 49326 DATA 34,165,157,240,30,165 49332 DATA 212,208,26,166,198,202:rem 101 49338 DATA 189,119,2,201,133,144 :rem 51 49344 DATA 16,201,141,176,12,56 :rem 250

49350 DATA 233,133,10,10,10,10 :rem 174 49356 DATA 9,1,141,-1,-256,96 :rem 152 :rem 199 49362 DATA 166,122,189,0,2,201 :rem 220 49368 DATA 70,208,68,232,189,0 49374 DATA 2,201,49,144,60,201 :rem 197 49380 DATA 57,176,59,41,15,168 :rem 224 49386 DATA 185, -135, -257, 168, 232, 189 :rem 11 49392 DATA 0,2,201,61,240,5 :rem 40 49398 DATA 162,11,108,0,3,232 :rem 149 49404 DATA 189,0,2,201,13,240 :rem 140 :rem 203 49410 DATA 15,201,95,208,2,169 49416 DATA 13,153,-1,-256,200,152 :rem 77 49422 DATA 41,15,208,233,169,0 :rem 200 49428 DATA 153,-1,-256,160,107,32 :rem 86 49434 DATA 230,241,108,2,3,108 :rem 193 49440 DATA -144, -257, 208, 251, 232, 189 :rem 247 49446 DATA 0,2,201,61,208,202 :rem 139 49452 DATA 232,138,72,160,0,189 :rem 3 49458 DATA Ø,2,201,44,240,8 :rem 47 49464 DATA 232,200,192,15,208,243 :rem 95 49470 DATA 240,182,192,0,208,4 :rem 201 49476 DATA 162,8,208,176,232,189 :rem 70 49482 DATA Ø,2,201,49,240,8 :rem 49 49488 DATA 201,56,240,4,162,9 :rem 161 49494 DATA 208,160,41,15,170,152 :rem 48 49500 DATA 72,160,0,138,32,186 :rem 200 49506 DATA 255,104,168,104,170,152 :rem 147 49512 DATA 160,2,32,189,255,162 :rem Ø 49518 DATA -1,134,251,169,-256,133 :rem 144 49524 DATA 252,160,-257,169,251,162 :rem 202 49530 DATA -227,32,216,255,169,13 :rem 97 49536 DATA 32,210,255,76,116,196 :rem 58 49542 DATA Ø,1,65,17,81,33 :rem 1 49548 DATA 97,49,113,124,165,49 :rem 22 :rem Ø 49554 DATA 234,162,-256,173,5,3 49560 DATA 201,-256,240,17,141,-145 :rem 182 49566 DATA -257,173,4,3,141,-144 :rem 45 49572 DATA -257,169,-211,141,4,3 :rem 42 49578 DATA 142,5,3,173,21,3 :rem 55 49584 DATA 201,-256,240,19,141,-147 :rem 192 49590 DATA -257,173,20,3,141,-146 :rem 90 49596 DATA -257,169,-130,120,141,20 :rem 190 49602 DATA 3,142,21,3,88,173 :rem 102 49608 DATA 144,2,201,-256,240,19 :rem 41 49614 DATA 141,-170,-256,173,143,2 :rem 136 49620 DATA 141,-169,-256,169,-168,120 :rem 39 :rem 195 49626 DATA 141,143,2,142,144,2 49632 DATA 88,96,256 :rem 246

Disk Auto Load For The 64

(Article on page 164.)

5 PRINT"{CLR} PLEASE WAIT..." :rem 18 10 B=679:C=767:TT=0 :rem 51 20 FORA=BTOC:READD:TT=TT+D:POKEA,D:NEXT :rem 82



25 IFTT<>8554THENPRINT"CHECK DATA STATEME
NTS"; B; "TO"; C: END :rem 156 30 B=7168:C=7623:TT=0 :rem 147
3Ø B=7168:C=7623:TT=Ø :rem 147 4Ø FORA=BTOC:READD:TT=TT+D:POKEA,D:NEXT
40 FORA-BIOC:READD:II-II+D:POREA, D:NEXT :rem 84
45 IFTT<>42577THENPRINT"CHECK DATA STATEM
ENTS"; B; "TO"; C: END :rem 209
50 PRINT "{CLR}{DOWN} AUTO-LOAD A {RVS}B
[OFF]ASIC OR [RVS]M[OFF]ACHINE LANGUAG
E{3 SPACES}PROGRAM?" :rem 124
7Ø GETA\$:IFA\$=""THEN7Ø :rem 241 8Ø IFA\$="M"THENGOSUB3ØØ :rem 1Ø8
299 SYS7168:END :rem 138
300 PRINT" {CLR} {DOWN} ENTER STARTING ADDR
ESS OF MACHINE LANG. PROGRAM. ":rem 24
330 INPUTN: IFN<00RN>65535THEN300 :rem 238
34Ø NN=INT(N/256):POKE722,N-(NN*256):POKE 723,NN:POKE721,32 :rem 134
723,NN:POKE721,32 :rem 134 345 POKE693,1 :rem 202
350 POKE718, 32: POKE719, 66: POKE720, 166: POK
E724,76:POKE725,116:POKE726,164:RETUR
N :rem 184
679 DATA169,131,141,2,3,169,164,141
:rem 245
687 DATA3,3,169,8,170,160,0,32 :rem 245 695 DATA186,255,169,2,162,239,160,2
:rem 255
703 DATA32,189,255,169,0,166,43,164
:rem 250
711 DATA44, 32, 213, 255, 32, 231, 255, 165
:rem 25
719 DATA174,133,45,133,47,165,175,133 :rem 93
727 DATA46,133,48,234,169,82,141,119
:rem 47
735 DATA2,169,213,141,120,2,169,13
:rem 180
743 DATA141,121,2,169,3,133,198,96
751 DATAØ,Ø,Ø,Ø,Ø,Ø,Ø,Ø :rem 195
751 DATAØ,Ø,Ø,Ø,Ø,Ø,Ø,Ø :rem 107 759 DATAØ,Ø,Ø,Ø,Ø,Ø,Ø,Ø,Ø :rem 207
7168 DATA162,0,189,171,28,32,210,255
:rem 38
:rem 38 7176 DATA232,224,98,208,245,162,0,32
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245 :rem 128
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245 :rem 128 7248 DATA162,0,32,207,255,201,13,240
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245 :rem 198 7248 DATA162,0,32,207,255,201,13,240 :rem 19 7256 DATA8,157,200,29,232,224,16,208 :rem 36
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245 :rem 128 7248 DATA162,0,32,207,255,201,13,240 :rem 19 7256 DATA8,157,200,29,232,224,16,208 :rem 36 7264 DATA241,142,111,28,169,167,141,2
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245 :rem 128 7248 DATA162,0,32,207,255,201,13,240 :rem 19 7256 DATA8,157,200,29,232,224,16,208 :rem 36 7264 DATA241,142,111,28,169,167,141,2 :rem 82
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245 :rem 128 7248 DATA162,0,32,207,255,201,13,240 :rem 19 7256 DATA8,157,200,29,232,224,16,208 :rem 36 7264 DATA241,142,111,28,169,167,141,2 :rem 82 7272 DATA3,169,2,141,3,3,169,0 :rem 241
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245 :rem 198 7248 DATA162,0,32,207,255,201,13,240 :rem 19 7256 DATA8,157,200,29,232,224,16,208 :rem 36 7264 DATA241,142,111,28,169,167,141,2 :rem 82 7272 DATA3,169,2,141,3,3,169,0 :rem 241 7280 DATA162,200,160,29,32,189,255,169 :rem 143
:rem 38 7176 DATA232,224,98,208,245,162,0,32 :rem 38 7184 DATA207,255,201,13,240,8,157,239 :rem 87 7192 DATA2,232,224,16,208,241,142,186 :rem 80 7200 DATA2,162,0,189,13,29,32,210:rem 123 7208 DATA255,232,224,59,208,245,162,0 :rem 86 7216 DATA160,0,232,234,208,252,200,208 :rem 116 7224 DATA249,165,197,201,64,240,250,169 :rem 195 7232 DATA0,133,198,162,0,189,74,29 :rem 198 7240 DATA32,210,255,232,224,85,208,245 :rem 198 7248 DATA162,0,32,207,255,201,13,240 :rem 19 7256 DATA8,157,200,29,232,224,16,208 :rem 36 7264 DATA241,142,111,28,169,167,141,2 :rem 82 7272 DATA3,169,2,141,3,3,169,0 :rem 241 7280 DATA162,200,160,29,32,189,255,169

7296 DATA167,133,251,169,2,133,252,169
:rem 149
7304 DATA251,162,4,160,3,32,216,255
:rem 229
7312 DATA32,231,255,169,131,141,2,3
:rem 226
7320 DATA169,164,141,3,3,162,0,189
:rem 188
7328 DATA159,29,32,210,255,232,224,41
rem 84 7336 DATA208.245.96.147.17.32.69.78
7344 DATA84.69.82.32.78.65.77.69 :rem 12
7360 DATA71,82,65,77,32,84,72,65 :rem 110 7368 DATA84,32,73,83,32,84,79,32 :rem 114
7416 5155 70 00 41 00 10 51 00 10
7512 DITITO TO TO TO TO TO TO TO TO
7512 DATA/9,70,32,66,79,79,84,13 :rem 117 7520 DATA80,82,79,71,46,32,157,84:rem 158
7500 010170 60 70 00 00 00 00 00
7536 DATA/2,69,78,32,80,82,69,83 :rem 124 7536 DATA83,13,82,69,84,85,82,78 :rem 125
7544 DATA46,17,13,32,77,65,88,73 :rem 112
7552 DATA77,85,77,32,76,69,78,71 :rem 130
7560 DATA84,72,32,61,32,49,54,13 :rem 96
7560 0100 67 70 65 00 65 65 0.
7576 DATA69,82,83,46,17,17,13,147:rem 165
7584 DATA17, 32, 18, 84, 85, 82, 78, 32 :rem 115
7592 DATA67,79,77,80,85,84,69,82 :rem 138
7600 DATA32,79,70,70,47,79,78,13 :rem 108
7608 DATA84,79,32,82,69,83,69,84 :rem 131
7616 DATA32,86,69,67,84,79,82,83 :rem 130
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MLX

(Article on page 167.)

BEFORE TYPING...

Before typing in programs, please refer to "How To Type COMPUTE!'s Gazette Programs," "A Beginner's Guide To Typing In Programs," and "The Automatic Proofreader" that appear before the Program Listings.

Program 1: MLX—VIC Version

10 REM LINES CHANGED FROM VIC MLX VERSION 2.00 ARE 581,582,765 :rem 166 100 PRINT"{CLR} {PUR}"; CHR\$(142); CHR\$(8); :rem 181 101 POKE 788,194:REM DISABLE RUN/STOP :rem 174

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:rem 88 57Ø N=Ø:Z=Ø 580 PRINT" [+3"; :rem 79 581 GETAS: IFAS=""THEN581 :rem 95 582 AV=-(AS="M")-2*(AS=",")-3*(AS=".")-4* (A\$="J")-5*(A\$="K")-6*(A\$="L"):rem 41 583 AV=AV-7*(A\$="U")-8*(A\$="I")-9*(A\$="0"): IFAS="H"THENAS="Ø" :rem 134 584 IFAV>ØTHENA\$=CHR\$(48+AV) :rem 134 585 PRINTCHR\$ (20); : A=ASC(A\$): IFA=130RA=44 ORA=32THEN67Ø :rem 229 590 IFA>128THENN=-A:RETURN :rem 137 600 IFA<>20 THEN 630 :rem 10 610 PRINTCHR\$(146);:GOSUB690:IFI=1ANDT=44 THENN=-1:PRINT" {LEFT } {LEFT }";:GOTO69 Ø :rem 155 620 GOTO570 :rem 109 630 IFA<480RA>57THEN580 :rem 105 :rem 106 640 PRINTA\$;:N=N*10+A-48 650 IFN>255 THEN A=20:GOSUB1000:GOTO600 :rem 229 660 Z=Z+1:IFZ<3THEN580 :rem 71 670 IFZ=ØTHENGOSUB1000:GOTO570 :rem 114 PRINT", "; : RETURN :rem 240 680 690 S%=PEEK(209)+256*PEEK(210)+PEEK(211) :rem 149 692 FORI=1T03:T=PEEK(S%-I) :rem 68 695 IFT <> 44 ANDT <> 58 THENPOKES &- I, 32 :NEXT :rem 205 700 PRINTLEFTS("{3 LEFT}", I-1); :RETURN :rem 7 710 PRINT" [CLR] [RVS] *** SAVE *** [3 DOWN]" :rem 236 720 F\$="":INPUT" [DOWN] FILENAME"; F\$:IFF\$= ""THEN310 :rem 128 730 PRINT: PRINT" {2 DOWN } [RVS] T { OFF } APE OR [RVS]D[OFF]ISK: (T/D)" :rem 228 740 GETAS: IFAS<>"T"ANDAS<>"D"THEN740 :rem 36 75Ø DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$: OPEN15,8,15, "S"+F\$: CLOSE15 :rem 212 76Ø T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 3 762 POKE781, ZK-PEEK(782)*256: POKE780, LEN(T\$):SYS65469 :rem 109 763 POKE780,1:POKE781, DV:POKE782,1:SYS654 :rem 69 66 765 K=S:POKE254,K/256:POKE253,K-PEEK(254) *256:POKE780,253 :rem 17 766 K=E+1:POKE782,K/256:POKE781,K-PEEK(78 2)*256:SYS65496 :rem 235 770 IF(PEEK(783)AND1)OR(191ANDST)THEN780 :rem 111 775 PRINT" [DOWN] DONE. ":GOTO310 :rem 96 780 PRINT" [DOWN] ERROR ON SAVE. [2 SPACES]T RY AGAIN. ": IFDV=1THEN720 :rem 171 781 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$;E2\$:CLOSE15:GOT0720 :rem 103 782 GOTO720 :rem 115 790 PRINT"{CLR} {RVS}*** LOAD ***{2 DOWN}" :rem 212 800 F\$="":INPUT"{2 DOWN} FILENAME";F\$:IFF \$=""THEN310 :rem 144 810 PRINT: PRINT" [2 DOWN] [RVS] T[OFF] APE OR {RVS}D{OFF}ISK: (T/D)" :rem 227 820 GETAS: IFAS<>"T"ANDAS <> "D"THEN820 :rem 34 830 DV=1-7*(A\$="D"):IFDV=8THENF\$="0:"+F\$:rem 157 840 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2

110 PRINT" [RVS] [14 SPACES]" :rem 117 120 PRINT" [RVS] [RIGHT] [OFF] [*] £[RVS] [RIGHT] [RIGHT] [2 SPACES] [*] [OFF] [*] £{RVS}£{RVS} " :rem 191 130 PRINT" TRVS | [RIGHT] EG3 [RIGHT] [2 RIGHT] [OFF] £ [RVS] £ [*] [OFF] [*] :rem 232 [RVS] 14Ø PRINT" [RVS] [14 SPACES]" :rem 120 200 PRINT" { 2 DOWN } [PUR] [BLK] MACHINE LANGU AGE":PRINT"EDITOR VER 2.02[5 DOWN]" :rem 192 210 PRINT" {BLK} {3 UP}STARTING ADDRESS": IN PUTS:F=1-F:CS=CHRS(31+119*F) :rem 97 220 IFS<256ORS>32767THENGOSUB3000:GOTO210 :rem 2 225 PRINT: PRINT: PRINT: PRINT :rem 123 PRINT" [BLK] [3 UP] ENDING ADDRESS": INPU 230 TE:F=1-F:CS=CHR\$(31+119*F) :rem 158 IFE<256ORE>32767THENGOSUB3000:GOTO230 240 :rem 234 250 IFE<STHENPRINTCS; "{RVS}ENDING < START [2 SPACES]":GOSUB1000:GOTO 230 :rem 176 :rem 179 260 PRINT:PRINT:PRINT 300 PRINT" {CLR}"; CHR\$(14): AD=S :rem 56 A=1:PRINTRIGHTS("0000"+MIDS(STRS(AD), 310 2),5);":"; :rem 33 :rem 33 FOR J=A TO 6 315 320 GOSUB570:IFN=-1 THENJ=J+N:GOTO320 :rem 228 :rem 62 390 IFN=-211THEN 710 400 IFN=-204THEN 790 :rem 64 IFN=-206THENPRINT: INPUT" { DOWN } ENTER N 410 :rem 44 EW ADDRESS"; ZZ 415 IFN=-206THENIFZZ<SORZZ>ETHENPRINT" [RVS]OUT OF RANGE":GOSUB1000:GOTO410 :rem 225 417 IFN=-206THENAD=ZZ:PRINT:GOTO310 :rem 238 420 IF N<>-196 THEN 480 :rem 133 PRINT: INPUT "DISPLAY: FROM" ; F: PRINT, "TO 430 :rem 234 "; : INPUTT 44Ø IFF<SORF>EORT<SORT>ETHENPRINT"AT LEAS T";S;"{LEFT}, NOT MORE THAN";E:GOTO43 :rem 159 Ø 450 FORI=FTOTSTEP6:PRINT:PRINTRIGHT\$("000 Ø"+MID\$(STR\$(1),2),5);":"; :rem 30 455 FORK=ØTO5:N=PEEK(I+K):IFK=3THENPRINTS PC(10): :rem 34 PRINTRIGHT\$("ØØ"+MID\$(STR\$(N),2),3);" 457 "; :rem 157 GETA\$: IFA\$>""THENPRINT: PRINT: GOTO310 460 :rem 25 NEXTK:PRINTCHR\$(20);:NEXTI:PRINT:PRIN 470 T:GOTO310 :rem 5Ø IFN<Ø THEN PRINT:GOTO310 :rem 168 480 490 A(J)=N:NEXTJ :rem 199 500 CKSUM=AD-INT(AD/256)*256:FORI=1T06:CK SUM=(CKSUM+A(I))AND255 -NEXT :rem 200 510 PRINTCHR\$(18);:GOSUB570:PRINTCHR\$(146 :rem 94); IFN=-1THENA=6:GOTO315 :rem 254 511 515 PRINTCHR\$(20):IFN=CKSUMTHEN530 :rem 122 520 PRINT: PRINT"LINE ENTERED WRONG": PRINT "RE-ENTER": PRINT: GOSUB1000:GOTO310 :rem 129 :rem 218 53Ø GOSUB2ØØØ 54Ø FORI=1TO6:POKEAD+I-1,A(I):NEXT:rem 8Ø 550 AD=AD+6: IF AD<E THEN 310 :rem 212 56Ø GOTO 71Ø :rem 108

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- 841 POKE781,ZK-PEEK(782)*256:POKE780,LEN(T\$):SYS65469 :rem 107
- 845 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70
- 850 POKE780,0:SYS65493 :rem 11
- 860 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111
- 865 PRINT" [DOWN]DONE.":GOTO310 :rem 96 870 PRINT" [DOWN]ERROR ON LOAD. [2 SPACES]T RY AGAIN. [DOWN]":IFDV=1THEN800
- rem 172: 880 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$
- ;E2\$:CLOSE15:GOTO800 :rem 102
- 1000 REM BUZZER :rem 135
- 1001 POKE36878,15:POKE36874,190 :rem 206 1002 FORW=1TO300:NEXTW :rem 117
- 1003 POKE36878,0:POKE36874,0:RETURN
- :rem 74
- 2000 REM BELL SOUND :rem 78 2001 FORW=15TO0STEP-1:POKE36878,W:POKE368 76,240:NEXTW :rem 22
- 2002 POKE36876,0:RETURN :rem 119
- 3000 PRINTC\$;"{RVS}NOT ZERO PAGE OR ROM": GOTO1000 :rem 89

Program 2: MLX-64 Version

1Ø	REM LINES CHANGED FROM MLX V Ø ARE 750,765,770 AND 860	ERSION 2.0
2Ø	REM LINE CHANGED FROM MLX VE IS 300	RSION 2.01 :rem 147
100	PRINT" {CLR } [6]"; CHR\$(142); C	HR\$(8);:PO
101	KE53281,1:POKE53280,1 POKE 788,52:REM DISABLE RUN	:rem 67
110	PRINT" [RVS] [39 SPACES]";	:rem 176
120	PRINT" [RVS] [14 SPACES] [RIGH £[RVS] [RIGHT] [RIGHT] [2 SPA	T] [OFF] [*]
	£[RVS] [RIGHT] [RIGHT] [2 SPA	CES] [*]
	TOFF E* 1 £ [RVS] £ [RVS] [14 SPA	CES] ";
120	PRINT" [RVS] [14 SPACES] [RIGH	:rem 250
130	[RIGHT] [2 RIGHT] [OFF]£[RV	51+6+3
	[OFF] K*3 [RVS] [14 SPACEST":	:rem 35
140	<pre>{OFF}E*]{RVS}{14 SPACES]"; PRINT"{RVS}{41 SPACES}"</pre>	:rem 120
200	PRINT" [2 DOWN] [PUR] [BLK] MA	CHINE LANG
	UAGE EDITOR VERSION 2.02[5	
		:rem 238
210	PRINT"[5][2 UP]STARTING ADD [8 SPACES][9 LEFT]";	rem 143
215		*F)
215	141010.1-1-1.co-cinco(31111)	:rem 166
220	IFS<2560R(S>40960ANDS<49152	
	THENGOSUB3000:GOTO210	:rem 235
225		
230	PRINT [5] [2 UP]ENDING ADDRE	SS?
	<pre>{8 SPACES}{9 LEFT}";:INPUTE CHR\$(31+119*F)</pre>	
240	IFE<2560R(E>40960ANDE<49152	:rem 20
240	THENGOSUB3000:GOTO230	:rem 183
250	IFE <sthenprintc\$; "{rvs}endi<="" td=""><td></td></sthenprintc\$;>	
	{2 SPACES}":GOSUB1000:GOTO	230
		:rem 176
260		:rem 179
300		:rem 56
31Ø	A=1:PRINTRIGHT\$("0000"+MID\$ 2),5);":";	
315	27,57; ; ; ; FORJ=ATO6	:rem 33
	GOSUB570:IFN=-1THENJ=J+N:GO	
		:rem 228
39Ø	IFN=-211THEN 710	:rem 62
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410	IFN=-206THENPRINT: INPUT" { DOWN	ENTER N
	EW ADDRESS"; ZZ	:rem 44
415	IFN=-206THENIFZZ <sorzz>ETHENP</sorzz>	
	{RVS}OUT OF RANGE":GOSUB1000:	:rem 225
417	IFN=-206THENAD=ZZ:PRINT:GOTO3	
11/		:rem 238
420		:rem 133
43Ø	PRINT: INPUT"DISPLAY: FROM"; F:P	
	";:INPUTT	:rem 234
44Ø	IFF < SORF > EORT < SORT > ETHENPRINT	
	T";S;"{LEFT}, NOT MORE THAN";	
		:rem 159
450	<pre>FORI=FTOTSTEP6:PRINT:PRINTRIG Ø"+MID\$(STR\$(I),2),5);":";</pre>	
451	FORK=ØTO5:N=PEEK(I+K):PRINTRIO	CHTS ("00
131	"+MID\$(STR\$(N),2),3);",";	:rem 66
46Ø		GOTO31Ø
		:rem 25
47Ø	NEXTK:PRINTCHR\$(20);:NEXTI:PR	
	T:GOTO31Ø	:rem 50
480		:rem 168
49Ø 5ØØ	A(J)=N:NEXTJ CKSUM=AD-INT(AD/256)*256:FORI	:rem 199
ששכ	SUM=(CKSUM+A(I))AND255:NEXT	
510	PRINTCHR\$(18);:GOSUB570:PRINT	
);	:rem 94
511		:rem 254
515	PRINTCHR\$(20):IFN=CKSUMTHEN53	
		:rem 122
520	PRINT PRINT LINE ENTERED WRONG	
- 24	NTER": PRINT: GOSUBIØØØ: GOTO31Ø	
53Ø	GOSUB2000 FORI=1TO6:POKEAD+I-1,A(I):NEX	:rem 218
		:rem 227
55Ø	and the second	:rem 212
560		:rem 108
57Ø	N=Ø:Z=Ø	:rem 88
58Ø		:rem 81
581	GETA\$:IFA\$=""THEN581	:rem 95
582	AV=-(A\$="M")-2*(A\$=",")-3*(A\$	=".")-4*
	(A\$="J")-5*(A\$="K")-6*(A\$="L" AV=AV-7*(A\$="U")-8*(A\$="I")-9):rem 41
503		:rem 134
584		:rem 134
	PRINTCHR\$(20); :A=ASC(A\$):IFA=	
		:rem 229
59Ø		:rem 137
000		:rem 10
	GOSUB690:IFI=1ANDT=44THENN=-1	
	{OFF}{LEFT} {LEFT}";:GOTO69Ø GOTO57Ø	
		:rem 109 :rem 105
		:rem 105
	IFN>255 THEN A=20:GOSUB1000:G	
		:rem 229
	Z=Z+1:IFZ<3THEN580	:rem 71
67Ø	IFZ=ØTHENGOSUB1000:GOTO570	:rem 114
680	PRINT", "; : RETURN	:rem 240
690	S%=PEEK(209)+256*PEEK(210)+PE	EK(211)
691	<pre>FORI=1TO3:T=PEEK(S%-I) IFT<>44ANDT<>58THENPOKES%-I,3</pre>	:rem 149
695	IFT<>44ANDT<>58THENPOKES%-1,3	2 :NEXT
		:rem 205
700	PRINTLEFT\$("{3 LEFT}",I-1);:R	ETURN
		:rem 7
710	PRINT"{CLR} [RVS] *** SAVE ***{	3 DOWN]"
		:rem 236
715	PRINT" { 2 DOWN } (PRESS [RVS]RET ALONE TO CANCEL SAVE) { DOWN } "	URN [OFF]
	TOTA TO ALLANT ALLAND DOUDT H	+ mom 106

400 TEN=-204THEN 790

:rem 64

72Ø	
73Ø	"THENPRINT:PRINT:GOTO310 :rem 71 PRINT:PRINT"{2 DOWN}{RVS}T{OFF}APE OR
740	{RVS}D{OFF}ISK: (T/D)" :rem 228 GETA\$:IFA\$<>"T"ANDA\$<>"D"THEN740
75Ø	:rem 36 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:
76Ø	OPEN15,8,15,"S"+F\$:CLOSE15 :rem 212 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$
762):POKE782,ZK/256 :rem 3 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(
102	
763	T\$):SYS65469 :rem 109 POKE780,1:POKE781,DV:POKE782,1:SYS654
765	66 :rem 69 K=S:POKE254,K/256:POKE253,K-PEEK(254)
766	
77Ø	2)*256:SYS65496 :rem 235 IF(PEEK(783)AND1)OR(191ANDST)THEN780
775	:rem 111
	:rem 113 PRINT" [DOWN]ERROR ON SAVE. [2 SPACES]T
78Ø	RY AGAIN.":IFDV=1THEN720 :rem 171
781	
101	;E2\$:CLOSE15:GOTO720 :rem 103
79Ø	PRINT"{CLR} {RVS}*** LOAD ***{2 DOWN}" :rem 212
795	PRINT" {2 DOWN } (PRESS {RVS } RETURN { OFF } ALONE TO CANCEL LOAD)" :rem 82
800	F\$="":INPUT"{2 DOWN} FILENAME";F\$:IFF
81Ø	<pre>\$=""THENPRINT:GOTO310 :rem 144 PRINT:PRINT"{2 DOWN}{RVS}T{OFF}APE OR {RVS}D{OFF}ISK: (T/D)" :rem 227</pre>
82Ø	GETA\$: IFA\$<> "T"ANDA\$<> "D"THEN820
82Ø 83Ø	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$
	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$
83Ø	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(
83Ø 84Ø	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2
83Ø 84Ø 841 845	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70
83Ø 84Ø 841 845	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654
83Ø 84Ø 841 845 85Ø 86Ø	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111
83Ø 84Ø 841 845 85Ø 86Ø	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111
83Ø 84Ø 841 845 85Ø 86Ø	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800
83Ø 84Ø 841 845 85Ø 86Ø 86Ø 865 87Ø	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 172
83Ø 84Ø 841 845 85Ø 86Ø 86Ø 865 87Ø	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 172 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$
830 840 841 845 850 860 860 865 870 880	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 172 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$;E2\$:CLOSE15:GOTO800 :rem 102
830 840 841 845 850 860 860 865 870 880 100	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 172 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$;E2\$:CLOSE15:GOTO800 :rem 102 0 REM BUZZER :rem 135
830 840 841 845 850 860 860 865 870 880 100	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 172 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$;E2\$:CLOSE15:GOTO800 :rem 102
830 840 841 845 850 860 860 865 870 880 100 100	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 172 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$;E2\$:CLOSE15:GOTO800 :rem 102 Ø REM BUZZER :rem 135 1 POKE54296,15:POKE54277,45:POKE54278, 165 :rem 207 2 POKE54276,33:POKE 54273,6:POKE54272,
830 840 841 845 850 860 860 865 870 880 100 100	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE780,LEN(T\$):SYS65469 :rem 107 POKE780,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE780,0:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 102 Ø REM BUZZER :rem 135 1 POKE54296,15:POKE54277,45:POKE54278, 165 :rem 207 2 POKE54276,33:POKE 54273,6:POKE54272, 5 :rem 42 3 FORT=1TO200:NEXT:POKE54276,32:POKE54
830 840 841 845 850 860 860 865 870 880 100 100 100	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE780,LEN(T\$):SYS65469 :rem 107 POKE780,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE780,0:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 102 Ø REM BUZZER :rem 135 1 POKE54296,15:POKE54277,45:POKE54278, 165 :rem 207 2 POKE54276,33:POKE 54273,6:POKE54272, 5 :rem 42 3 FORT=1TO200:NEXT:POKE54276,32:POKE54 273,0:POKE54272,0:RETURN :rem 202
830 840 841 845 850 860 865 870 880 100 100 100 100 200	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE78Ø,LEN(T\$):SYS65469 :rem 107 POKE78Ø,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE78Ø,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN87Ø :rem 111 PRINT"{DOWN}DONE.":GOTO31Ø :rem 96 PRINT"{DOWN}DONE.":GOTO31Ø :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN80Ø :rem 102 Ø REM BUZZER :rem 135 1 POKE54296,15:POKE54277,45:POKE54278, 165 :rem 207 2 POKE54276,33:POKE 54273,6:POKE54272, 5 :rem 42 3 FORT=1TO20Ø:NEXT:POKE54276,32:POKE54 273,Ø:POKE54272,Ø:RETURN :rem 202 Ø REM BELL SOUND :rem 78 1 POKE54296,15:POKE54277,Ø:POKE54278,2
830 840 841 845 850 860 860 865 870 880 100 100 100 100 200	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE780,LEN(T\$):SYS65469 :rem 107 POKE780,1:POKE781,DV:POKE782,1:SYS654 66 :rem 70 POKE780,Ø:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 172 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$;E2\$:CLOSE15:GOTO800 :rem 102 Ø REM BUZZER :rem 135 1 POKE54296,15:POKE54277,45:POKE54278, 165 :rem 207 2 POKE54276,33:POKE 54273,6:POKE54272, 5 :rem 42 3 FORT=1TO200:NEXT:POKE54276,32:POKE54 273,0:POKE54272,0:RETURN :rem 202 Ø REM BELL SOUND :rem 78 1 POKE54296,15:POKE54277,0:POKE54278,2 47 :rem 152 2 POKE 54276,17:POKE54273,40:POKE54272
830 840 841 845 850 860 860 865 870 880 100 100 100 100 200 200 200	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE780,LEN(T\$):SYS65469 :rem 107 POKE780,0:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 172 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$;E2\$:CLOSE15:GOTO800 :rem 102 Ø REM BUZZER :rem 135 1 POKE54296,15:POKE54277,45:POKE54278, 165 :rem 207 2 POKE54276,33:POKE 54273,6:POKE54272, 5 :rem 42 3 FORT=1TO200:NEXT:POKE54276,32:POKE54 273,0:POKE54272,0:RETURN :rem 202 Ø REM BELL SOUND :rem 78 1 POKE54296,15:POKE54277,0:POKE54278,2 47 :rem 152 2 POKE 54276,17:POKE54273,40:POKE54272, 0 :rem 86 3 FORT=1TO100:NEXT:POKE54276,16:RETURN
830 840 841 845 850 860 860 860 860 860 100 100 100 100 200 200 200 200	:rem 34 DV=1-7*(A\$="D"):IFDV=8THENF\$="Ø:"+F\$:rem 157 T\$=F\$:ZK=PEEK(53)+256*PEEK(54)-LEN(T\$):POKE782,ZK/256 :rem 2 POKE781,ZK-PEEK(782)*256:POKE780,LEN(T\$):SYS65469 :rem 107 POKE780,0:SYS65493 :rem 11 IF(PEEK(783)AND1)OR(191ANDST)THEN870 :rem 111 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}DONE.":GOTO310 :rem 96 PRINT"{DOWN}ERROR ON LOAD.{2 SPACES}T RY AGAIN.{DOWN}":IFDV=1THEN800 :rem 172 OPEN15,8,15:INPUT#15,E1\$,E2\$:PRINTE1\$;E2\$:CLOSE15:GOTO800 :rem 102 Ø REM BUZZER :rem 135 1 POKE54296,15:POKE54277,45:POKE54278, 165 :rem 207 2 POKE54276,33:POKE 54273,6:POKE54272, 5 :rem 42 3 FORT=1TO200:NEXT:POKE54276,32:POKE54 273,0:POKE54272,0:RETURN :rem 202 Ø REM BELL SOUND :rem 78 1 POKE54296,15:POKE54277,0:POKE54278,2 47 :rem 152 2 POKE 54276,17:POKE54273,40:POKE54272, 0 :rem 152 2 POKE 54276,17:POKE54273,40:POKE54272, 0 :rem 86

Machine Language For Beginners

(Article on page 116.)

BEFORE TYPING...

Before typing in programs, please refer to "How To Type COMPUTE!'s Gazette Programs," "A Beginner's Guide To Typing In Programs," and "The Automatic Proofreader" that appear before the Program Listings.

VIC/64 Assembler

10	H=0:REM IF H = 1 THEN ASSEMBLY IS IN H EX :rem 32	
50	HE\$="Ø123456789ABCDEF":SZ=1:ZO\$="ØØØ"	
	:rem 166	
100	PRINT" [3 SPACES] SIMPLE [3 SPACES] ASSEM	
	BLER 2 SPACES CONVENTIONS: " :rem 90	
110	DIMM\$(56),TY(56),OP(56) :rem 181 FORI=1T056:READM\$(I) :rem 160	
120	FORI=1T056:READMS(I) :rem 160	
122	ROP\$=MID\$(M\$(I),4,1):TY(I)=VAL(ROP\$)	
	:rem 5	
124	OP\$=RIGHT\$(M\$(I),3):OP(I)=VAL(OP\$)	
	:rem 155	
126	M\$(I)=LEFT\$(M\$(I),3) :rem 235	
140	NEXTI: PRINT :rem 228	
	PRINT"IMMEDIATE{5 SPACES}LDA #15	
1.54	:rem 46	
155	PRINT"ABSOLUTE[6 SPACES]LDA 1500	
100	:rem 64	
160	PRINT"ZERO PAGE [5 SPACES]LDA 15	
101	:rem 218	
165	PRINT"ACCUMULATOR [3 SPACES]ASL	
10.	:rem 107	
170	PRINT"INDIRECT X{4 SPACES}LDA (15X)	
	:rem 209	
175	PRINT"INDIRECT Y{4 SPACES}LDA (15)Y	
	:rem 216	
177	PRINT"ZERO PAGE X{3 SPACES}LDA 15X	
	:rem 146	
179	PRINT"ZERO PAGE Y[3 SPACES]LDX 15Y	
-	:rem 173	
180	PRINT"ABSOLUTE X{4 SPACES}LDA 1500X	
	:rem 238	
18	PRINT"ABSOLUTE Y{4 SPACES}LDA 1500Y	
10.	:rem 245	
189		
	RS IN "; :rem 127	
196	IFH=1 THENPRINT"HEX":GOTO200 :rem 201	
	PRINT"DECIMAL" :rem 95	
	PRINT: PRINT" PLEASE INPUT STARTING ADD	
-	RESS FOR ML PROGRAM": INPUT SA\$:rem Ø	
210	IFH=1THENH\$=SA\$:GOSUB5000:SA=DE:GOTO2	
	2Ø :rem 130	
215	SA=VAL(SA\$) :rem 85	
226	TA=SA:PRINT" [CLR]":REM CLEAR THE SCRE	
	EN :rem 190	
230		
	;:GOTO240 :rem 175	
235	PRINTSA" "; :rem 58	
24		
	P ONE LINE AND OVER 20 SPACES:rem 232	
241	REM ADD NEW PSEUDO-OPS HERE :rem 65	
242	IFRIGHT\$(MN\$,7)="FORWARD"THENFB=SA	
	:rem 90	
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		-

243 IFRIGHTS (MN\$, 7) = "RESOLVE" THENFR=SA-FB :POKEFB+1,FR-2:PRINT" [2 SPACES]OK":GO :rem 72 TO23Ø 244 IFRIGHT\$(MN\$,4)="POKE"THENPRINT"ADDR. NUMBER (DEC) "; : INPUTADR, NUM: POKEADR, NU M: GOTO23Ø :rem 116 250 IFMN\$="END"THENPRINT:PRINT"[6 SPACES] PROGRAM IS FROM"TA "TO"SA: END :rem 13 260 L=LEN(MNS):LS=LEFTS(MNS,3) :rem 181 :rem 136 270 FORI=1T056:IFLS=MS(I)THEN300 :rem 34 280 NEXTI 290 GOT0850 :rem 113 300 REM PRIMARY OPCODE CATEGORIES :rem 59 301 TY=TY(I):OP=OP(I):rem 20 :rem 244 305 IFFB=SATHENTN=0:GOTO2010 :rem 102 310 IFTY=0THENGOTO1000 IFTY=3THENTY=1:IFL=3THENOP=OP+8:GOTO1 320 :rem 81 aaa 330 R\$=RIGHT\$(MN\$,L-4):IFH=1THENGOSUB6000 :rem 200 340 LR\$=LEFT\$(R\$,1):LL=LEN(R\$):IFLR\$="#"T HEN48Ø :rem 184 350 IFLR\$="("THEN520 :rem 88 360 IFTY=8THEN600 :rem 15 370 IFTY=3THENOP=OP+8:GOTO1000 :rem 135 38Ø IFRIGHT\$(R\$,1)="X"ORRIGHT\$(R\$,1)="Y"T HEN63Ø :rem 210 390 IFLEFT\$(L\$,1)="J"THEN820 :rem 44 400 TN=VAL(R\$): IFTN>255THEN430 :rem 40 410 IFTY=1ORTY=3ORTY=4ORTY=5THENOP=OP+4 :rem 133 420 GOTO2000 :rem 145 430 H%=TN/256:L%=TN-256*H%:IFTY=20RTY=7TH ENOP=OP+8:GOTO470 :rem 92 44Ø IFTY=10RTY=30RTY=40RTY=5THENOP=0P+12: GOTO47Ø :rem 197 450 IFTY=60RTY=9THEN470 :rem 214 460 GOT0850 :rem 112 470 GOTO3000 :rem 151 480 TN=VAL(RIGHT\$(R\$,LL-1)) :rem 58 490 IFTY=1THENOP=OP+8:GOTO2000 :rem 137 500 IFTY=40RTY=5THENGOT02000 :rem 44 510 GOTO850 :rem 108 520 IFRIGHT\$(R\$,2)=")Y"THEN540 :rem 184 530 IFRIGHT\$(R\$,2)="X)"THEN570 :rem 187 540 TN=VAL(MID\$(R\$,2,LL-3)) :rem 243 550 IFTY=1THENOP=OP+16:GOTO2000 :rem 181 560 GOT0850 :rem 113 570 TN=VAL(MID\$(R\$,2,LL-3)) :rem 246 580 IFTY=1THENGOTO2000 :rem 113 590 GOT0850 :rem 116 600 TN=VAL(R\$):TN=TN-SA-2:IFTN<-1280RTN>1 27 THENPRINT "TOO FAR ";: GOTO850 :rem 154 :rem 172 610 IFTN<0THENTN=TN+256 620 GOTO2000 :rem 147 630 IFRIGHT\$(R\$,2)=")Y"THEN540 :rem 186 640 IFRIGHT\$(R\$,1)="X"THEN720 :rem 144 650 REM *ZERO Y :rem 66 TN=VAL(LEFT\$(R\$,LL-1)):IFTN>255THEN68 660 :rem 249 Ø 67Ø IFTY=20RTY=5THEN73Ø :rem 209 :rem 24 675 IFTY=1THEN760 680 GOSUB770: IFTY=1THENOP=OP+24: GOTO710 :rem 230 690 IFTY=5THENOP=OP+28:GOTO710 :rem 151 700 GOT0850 :rem 109 :rem 148 710 GOTO3000 720 TN=VAL(LEFT\$(R\$,LL-1)):IFTN>255THENGO :rem 136 SUB770:GOTO780 :rem 145 730 IFTY=2THENOP=OP+16:GOTO760 198 COMPUTEI's Gazette November 1984

74Ø IFTY=1ORTY=3ORTY=5THENOP=OP+20:GOTO76 :rem 10 Ø :rem 114 750 GOT0850 :rem 152 760 GOTO2000 770 H%=TN/256:L%=TN-256*H%:RETURN:rem 187 IFTY=2THENOP=OP+24:GOTO810 :rem 145 780 IFTY=1ORTY=3ORTY=5THENOP=OP+28:GOT081 790 :rem 19 Ø :rem 110 800 GOTO850 :rem 149 810 GOTO3000 :rem 35 82Ø TN=VAL(R\$) 83Ø GOSUB77Ø :rem 185 :rem 109 84Ø GOTO71Ø 850 PRINT" [RVS] ERROR ":GOTO230 :rem 18 1000 REM 1 BYTE INSTRUCTIONS :rem 191 1010 POKESA, OP:SA=SA+1:IFH=1THEN 1030 :rem 189 :rem 247 1020 PRINTOP:GOTO230 1030 DE = OP:GOSUB4000:PRINTH\$:GOTO230 :rem 226 2000 REM 2 BYTE INSTRUCTIONS :rem 193 IFTN>256 THENPRINT" INCORRECT ARGUMEN 2005 T. (#5 IN HEX IS #05)":GOTO230 :rem 94 2010 POKESA, OP: POKESA+1, TN: SA=SA+2: IFH=1T HEN2030 :rem 231 2020 PRINTOP; TN: GOTO230 :rem 213 2030 DE = OP:GOSUB4000:PRINTH\$" ";:rem 90 2040 DE = TN:GOSUB4000:PRINTH\$:GOTO230 :rem 231 3000 REM 3 BYTE INSTRUCTIONS :rem 195 3010 POKESA, OP: POKESA+1, L%: POKESA+2, H%: SA =SA+3:IFH=1THEN3Ø3Ø :rem 172 3020 PRINTOP:L%;H%:GOTO230 :rem 77 3030 DE = OP:GOSUB4000:PRINTH\$" ";:rem 91 3040 DE = L%:GOSUB4000:PRINTH\$" ";:rem 46 3050 DE = H%:GOSUB4000:PRINTHS:GOTO230 :rem 180 4000 REM{2 SPACES}DECIMAL TO HEX (DE TO H \$) :rem 8 4010 H\$="":FORM=SZTO0STEP-1:N%=DE/(16 fm): DE=DE-N%*16 M:H\$=H\$+MID\$(HE\$,N%+1,1) :rem 179 4020 NEXT:SZ=1:RETURN :rem 116 5000 REM [2 SPACES] HEX TO DECIMAL (H\$ TO D E) :rem 9 5010 D=0:Q=3:FORM=1TO4:FORW=0TO15:IFMID\$(H\$,M,1)=MID\$(HE\$,W+1,1)THEN5030 :rem 221 5020 NEXTW :rem 93 5030 D1=W*(16^(Q)):D=D+D1:Q=Q-1:NEXTM:DE= :rem 41 INT(D):RETURN 6000 REM ACCEPT HEX OPCODE INPUT AND TRAN :rem 57 SLATE IT TO DECIMAL IFLEFT\$(R\$,1)="#"THENH\$="ØØ"+RIGHT\$(6010 R\$,2):GOSUB5000:R\$="#"+STR\$(DE):RETU RN :rem 234 6020 LS=LEN(R\$):AZ\$=LEFT\$(R\$,1):ZA\$=MID\$(R\$,LS,1):IFAZ\$ <> "("THEN6050 :rem 126 6030 IFZAS="Y"THENHS="00"+MIDS(R\$,2,2):GO SUB5000:R\$="("+STR\$(DE)+")Y":RETURN :rem 30 6040 IFZAS=")"THENHS="00"+MIDS(R\$,2,2):GO SUB5000:RS="("+STR\$(DE)+"X)":RETURN :rem 238 6050 IFZAS="X"ORZAS="Y"THEN6070 :rem 40 6060 H\$=LEFT\$(ZA\$,4-LS)+R\$:GOSUB5000:R\$=S TR\$ (DE) : RETURN :rem 30 6070 IFLS=5THENH\$=LEFT\$(R\$,4):GOTO6090 :rem 253 6080 H\$="00"+LEFT\$(R\$,2) :rem 186

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6090 0	GOSUB5000:R\$=STR\$(DE)+ZA\$:RETURN
	:rem 252
20000	DATAADC1097, AND1033, ASL3002, BCC8144
	,BCS8176,BEQ8240,BIT7036,BMI8048
	:rem 96
20010	DATABNE8208, BPL8016, BRK0000, BVC8080
	,BVS8112,CLC0024,CLD0216,CL10088
	:rem 114
20020	DATACLVØ184, CMP1193, CPX4224, CPY4192
	, DEC2198, DEX0202, DEY0136, EOR1065
	:rem 184
20030	DATAINC2230, INX0232, INY0200, JMP6076
	,JSR9032,LDA1161,LDX5162,LDY5160
	:rem 200
20040	DATALSR3066, NOP0234, ORA1001, PHA0072
	, PHP0008, PLA0104, PLP0040, ROL3034
	:rem 185
20050	DATAROR3098, RT10064, RTS0096, SBC1225
	,SEC0056,SED0248,SEI0120,STA1129
	:rem 216
20060	DATASTX2134, STY2132, TAXØ17Ø, TAYØ168
	, TSXØ186, TXAØ138, TXSØ154, TYAØ152

:rem 79

Telecommunications Software

(Article on page 38.)

BEFORE TYPING...

Before typing in programs, please refer to "How To Type COMPUTE!'s Gazette Programs," "A Beginner's Guide To Typing In Programs," and "The Automatic Proofreader" that appear before the Program Listings.

C/G Term For VIC And 64

(NOTE: VIC users must replace the last three lines of this listing as noted in the corresponding article.)

4609 :011,008,010,000,158,052,240 4615 :054,050,049,000,000,000,160 4621 :032,231,255,162,000,142,067 4627 :255,043,169,000,133,251,102 4633 :169,044,133,252,172,255,026 4639 :043,169,000,145,251,032,159 4645 :251,029,174,255,043,224,245 4651 :204,208,239,166,252,224,056 4657 :046,144,233,162,000,142,008 4663 :255,043,032,110,041,169,193 4669 :006,141,147,002,173,239,001 4675 :043,201,022,208,008,169,206 4681 :032,141,018,145,076,085,058 4687 :018,169,032,141,003,221,151 4693 :169,002,162,002,160,255,067 4699 :032,186,255,169,001,162,128 4705 :147,160,002,032,189,255,114 4711 :032,192,255,032,246,040,132 4717 :032,204,255,169,163,141,049 4723 :098,039,169,043,141,099,192 4729 :039,032,086,039,169,000,230 4735 :141,131,044,032,204,255,166 4741 :032,128,041,174,131,044,171 4747 :224,000,208,013,032,204,052 4753 :255,032,228,255,201,000,092

4759	:240,228,141,131,044,173,084
4765	:131,044,201,003,208,006,238
4771	:032,076,041,076,029,019,180
4777	:174,239,043,224,022,208,055
4783	:006,173,016,145,076,185,008
4789	:018,173,001,221,041,016,139
4795	:201,000,208,234,173,239,218
	:043,141,131,044,032,246,062
4801	
4807	:021,032,214,021,173,131,023
4813	:044,201,002,208,008,169,069
100 7 5	
4819	:001,141,049,043,076,229,238
4825	:018,201,019,208,003,076,230
12323	200 010 201 022 200 210 005
4831	:229,018,201,022,208,218,095
4837	:032,204,255,032,228,255,211
4843	:201,000,208,246,173,239,022
4849	:043,141,131,044,032,246,110
4855	:021,032,076,041,076,029,010
4861	:019,032,246,040,032,204,058
4867	:255,174,118,044,224,000,050
4873	:240,018,169,158,141,098,065
4879	:039,169,044,141,099,039,034
4885	:032,086,039,162,000,142,226
4891	:118,044,032,193,020,162,084
4897	:000,142,198,044,142,131,178
2,22,21,2	
49Ø3	:044,032,204,255,032,128,222
4909	:041,174,131,044,224,000,147
4915	:208,010,032,228,255,141,157
4921	:131,044,201,000,240,051,212
4927	:162,001,142,198,044,173,015
	:131,044,201,028,176,036,173
4933	
4939	:201,013,240,032,201,020,014
4945	:240,028,201,020,144,006,208
4951	:032,000,021,076,018,022,000
4957	:201,017,176,014,201,014,204
4963	:240,010,201,005,240,006,033
4969	:032,000,021,076,018,022,018
4075	:076,148,019,032,204,255,077
4975	
4981	:162,002,032,198,255,032,030
4987	:228,255,201,000,240,159,182
4993	:141,131,044,032,238,020,223
4999	:174,189,044,224,000,208,206
5005	:228,032,204,255,076,068,236
5011	:019,173,131,044,201,147,094
5017	:208,008,169,000,141,131,042
5023	:044,076,037,020,174,198,196
5029	:044,224,000,240,123,173,201
5035	:131,044,201,134,208,024,145
5041	:174,239,043,224,022,208,063
5047	:006,032,175,041,076,193,194
5053	:019,238,032,208,169,000,087
5059	:141,131,044,076,037,020,132
5065	:201,138,208,024,174,239,161
5071	:043,224,022,208,006,032,230
5077	000 041 001 001 010 000 TH
5083	:200,041,076,221,019,238,240
5089	:033,208,169,000,141,131,133
	:033,208,169,000,141,131,133 :044,076,037,020,201,139,230
5095	:033,208,169,000,141,131,133
	:033,208,169,000,141,131,133 :044,076,037,020,201,139,230 :208,013,169,001,141,117,112
5101	:033,208,169,000,141,131,133 :044,076,037,020,201,139,230 :208,013,169,001,141,117,112 :044,169,000,141,131,044,254
	:033,208,169,000,141,131,133 :044,076,037,020,201,139,230 :208,013,169,001,141,117,112
51Ø1 51Ø7	:033,208,169,000,141,131,133 :044,076,037,020,201,139,230 :208,013,169,001,141,117,112 :044,169,000,141,131,044,254 :076,037,020,201,135,208,152
51Ø1 51Ø7 5113	:033,208,169,000,141,131,133 :044,076,037,020,201,139,230 :208,013,169,001,141,117,112 :044,169,000,141,131,044,254 :076,037,020,201,135,208,152 :014,234,234,234,234,234,234,153
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5101 5107 5113 5119 5125 5131 5137 5143 5149 5155	:033,208,169,000,141,131,133 :044,076,037,020,201,139,230 :208,013,169,001,141,117,112 :044,169,000,141,131,044,254 :076,037,020,201,135,208,152 :014,234,234,234,234,234,153 :234,169,000,141,131,044,206 :076,037,020,201,136,208,171 :011,234,234,234,234,234,168 :234,169,000,141,131,044,224 :201,140,208,010,162,001,233 :142,114,044,169,000,141,127 :131,044,032,224,020,173,147 :131,044,201,000,208,003,116 :076,136,020,173,198,044,182
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5185	:173,131,044,032,210,255,142
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5215	:174,198,044,224,000,208,175
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5227	:076,205,030,032,204,255,141
5233	:173,131,044,032,210,255,190
5239	:173,131,044,201,034,208,142
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5335	:141,191,044,173,134,002,132
5341	:145,243,096,164,211,177,233
5347	:209,073,128,145,209,173,140
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5371	:064,141,189,044,096,032,049
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5383	:255,032,204,255,096,173,254
5389	:150,044,201,058,144,015,113
5395	
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5401	:010,010,010,141,151,044,135
5407	:076,043,021,041,015,010,237
5413	:010,010,010,141,151,044,147
5419	:096,169,003,032,195,255,025
5425	:032,204,255,169,000,032,229
5431	:144,255,169,128,032,144,159
5437	:255,169,003,162,008,160,050
5443	:000,032,186,255,169,007,204
5449	:162,020,160,043,032,189,167
5455	:255,169,000,162,060,160,117
5461	:045,032,213,255,032,128,022
5467	:039,174,118,044,224,000,178
5473	:240,001,096,162,000,142,226
5479	:145,044,032,204,255,174,189
5485	:145,044,189,060,045,201,025
5491	:066,240,013,238,145,044,093
5497	:174,145,044,224,000,208,148
55Ø3	:236,076,108,021,238,145,183
5509	:044,174,145,044,189,060,021
5515	:045,201,076,240,006,238,177
5521	:145,044,076,108,021,206,233
5527	:145,044,206,145,044,206,173
5533	:145,044,174,145,044,189,130
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5551	:060,045,141,001,044,096,050
5557	:173,150,044,201,058,144,183
5563	:011,041,015,024,105,009,136
5569	:141,150,044,076,204,021,061
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5581	:150,044,013,151,044,141,236
5587	:150,044,096,032,183,255,203
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5599	:198,255,032,207,255,201,091
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5617	:224,000,208,225,096,032,002
	:183,255,032,204,255,162,058
5623	
5629	:002,032,201,255,173,131,023
5635	:044,032,210,255,032,238,046
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5647	:208,229,096,173,131,044,128
	200,229,090,173,131,044,120
5653	:201,021,208,037,174,049,199
5659	:043,224,000,208,020,174,184
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5677	:004,141,131,044,076,037,222
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5719	:076,097,040,201,004,208,201
5725	:016,174,049,043,224,001,088
5731	:208,006,032,204,255,076,112
5737	205 030 076 219 030 201 098
	:205,030,076,219,030,201,098
5743	:007,208,010,174,049,043,090
5749	:224,001,208,018,076,152,028
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5761	:246,040,169,000,141,131,088
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5779	:131,044,076,114,019,032,051
5785	:214,021,173,131,044,201,169
5791	:048,208,019,174,239,043,122
5797	:224,022,208,006,032,033,178
58Ø3	:042,076,197,022,032,015,043
5809	:042,076,197,022,174,239,159
5815	:043,224,022,208,006,032,206
5821	:042,042,076,197,022,032,088
5827	:024,042,032,214,021,174,190
5833	:239,043,224,022,208,006,175
5839	:032,215,041,076,221,022,046
5845	:173,131,044,041,015,141,246
5851	:032,208,032,214,021,174,132
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5863	:032,227,041,076,245,022,106
5869	
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5887	:147,032,210,255,032,057,220
5893	:040,162,000,142,145,044,026
5899	
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59Ø5	:020,208,014,174,145,044,110
5911	:240,242,206,145,044,032,164
5917	:210,255,076,011,023,201,037
5923	:013,240,074,201,032,240,067
5929	:008,201,048,144,221,201,096
5935	:058,176,035,032,210,255,045
5941	:174,190,044,224,000,240,157
5947	:003,076,179,023,174,145,147
5953	:044,157,017,044,238,145,198
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5959	:044,174,145,044,224,026,216
5965	:208,188,032,142,042,076,253
5971	:251,022,201,065,144,178,176
5977	:201,091,144,213,201,097,012
5983	:144,170,201,123,144,205,058
5989	:201,193,144,162,201,219,197
5995	:144,197,076,011,023,032,078
6001	:210,255,174,190,044,224,186

6007	:000,240,003,076,204,023,153
6013	:174,145,044,169,027,157,073
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6Ø43	:169,000,157,017,044,032,062
6049	:068,041,032,071,040,162,063
6Ø55	:000,142,145,044,162,001,149
6061	:142,190,044,076,011,023,147
6Ø67	:174,145,044,157,077,044,052
	114,145,644,157,677,644,652
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12.57	
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6157	:141,099,039,032,086,039,193
6163	:032,193,020,169,000,141,062
6169	:131,044,032,204,255,032,211
6175	:128,041,174,131,044,224,005
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12122	
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6199	:044,201,147,240,218,201,082
62Ø5	:003,208,030,173,114,044,121
6211	:201,000,032,000,021,240,049
6217	:020,032,246,021,032,246,158
6223	:040,032,093,041,169,000,198
6229	:141,131,044,141,114,044,188
6235	:076,254,018,201,133,208,213
6241	:008,169,001,141,157,044,105
6247	:076,204,024,201,137,208,185
6253	:008,169,001,141,115,044,075
6259	:076,204,024,201,134,208,194
6265	:019,174,239,043,224,022,074
6271	:208,006,032,175,041,076,153
6277	:204,024,238,032,208,076,147
6283	:204,024,201,138,208,019,165
6289	:174,239,043,224,022,208,031
6295	:006,032,200,041,076,204,198
	:024,238,033,208,076,204,172
63Ø1	
63Ø7	:024,201,135,208,008,169,140
6313	:001,141,188,044,076,204,055
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6325	:001,141,117,044,076,204,252
6331	:024,201,136,208,003,076,067
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64Ø3	
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6445	:000,021,032,076,041,076,035
6451	:029,019,174,157,044,224,186
6457	:000,240,006,032,000,021,100
6463	:076,223,031,076,019,024,000
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6547	:162,002,032,201,255,169,200
6553	:003,032,210,255,032,238,155
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6571	:254,018,174,243,043,232,111
6577	:142,120,044,173,242,043,173
6583	:141,121,044,032,018,040,067
6589	:032,232,040,032,089,035,137
6595	:032,089,035,032,018,040,185
66Ø1	:173,244,043,141,123,044,201
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6613	:133,044,141,255,043,141,202
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6649	:141,125,044,169,046,141,147
6655	:126,044,169,000,141,127,094
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6673	:174,126,044,134,252,173,152
6679	:239,043,201,022,208,006,230
6685	:173,005,144,076,038,026,235
6691	:173,024,208,041,002,201,172
6697	:000,208,005,169,048,076,035
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67Ø9	:043,145,251,032,251,029,036
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6733	:141,131,044,173,131,044,229
	141,151,044,175,151,044,225
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6745	:251,032,251,029,173,239,040
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6769	:044,173,131,044,009,048,050
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6781	:251,029,174,188,044,224,011
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6793	:132,044,174,132,044,189,084
6799	:017,044,201,000,240,014,147
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69Ø1	:141,010,044,169,000,141,238	
6907	:133,044,024,173,122,044,023	
6913	:109,246,043,141,122,044,194	
6919	:173,123,044,105,000,141,081	
6925	:123,044,173,247,043,141,016	
69.31	:138,044,169,255,141,134,132	
6937	:044,076,158,027,169,000,243	
6943	:141,133,044,172,133,044,186	
6949	:177,251,201,032,208,057,195	
6955	:238,133,044,173,133,044,040	
6961	:205,246,043,208,236,169,132	
6967	:000,141,133,044,024,173,058	
	:122,044,109,246,043,141,254	
6973		
6979	:122,044,173,123,044,105,166	
6985	:000,141,123,044,173,125,167	
6991	:044,133,251,173,126,044,082	
6997	:133,252,172,255,043,169,085	
7003	:013,145,251,032,251,029,044	
7009	:076,161,028,172,248,043,057	
7015	:140,133,044,172,133,044,001	
7021	:177,251,201,032,208,006,216	
7Ø27	:206,133,044,076,106,027,195	
7Ø33	:238,133,044,173,133,044,118	
7Ø39	:141,134,044,169,255,141,243	
7Ø45	:138,044,024,173,122,044,166	
7051	:109,246,043,141,122,044,076	
7057	:173,123,044,105,000,141,219	
7063	:123,044,169,000,141,133,249	
7069	:044,172,132,044,177,253,211	
7075	:041,015,141,147,044,238,021	
7Ø81		
7007	:132,044,173,147,044,205,146	
7Ø87	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191	
7Ø87 7Ø93	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137	
7093	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137	
7Ø93 7Ø99	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070	
7093 7099 7105	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198	
7093 7099 7105 7111	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176	
7093 7099 7105	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176	
7093 7099 7105 7111 7117	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176 :251,032,251,029,165,252,161	
7093 7099 7105 7111 7117 7123	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176 :251,032,251,029,165,252,161 :141,126,044,172,133,044,103	
7093 7099 7105 7111 7117 7123 7129	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176 :251,032,251,029,165,252,161 :141,126,044,172,133,044,103 :204,134,044,208,028,173,240	
7093 7099 7105 7111 7117 7123 7129	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176 :251,032,251,029,165,252,161 :141,126,044,172,133,044,103 :204,134,044,208,028,173,240	
7093 7099 7105 7111 7117 7123 7129 7135	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176 :251,032,251,029,165,252,161 :141,126,044,172,133,044,103 :204,134,044,208,028,173,240 :125,044,133,251,173,126,051	
7093 7099 7105 7111 7117 7123 7129 7135 7141	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176 :251,032,251,029,165,252,161 :141,126,044,172,133,044,103 :204,134,044,208,028,173,240 :125,044,133,251,173,126,051 :044,133,252,169,013,172,244	
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7093 7099 7105 7111 7117 7123 7129 7135 7141 7147 7153 7159	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176 :251,032,251,029,165,252,161 :141,126,044,172,133,044,103 :204,134,044,208,028,173,240 :125,044,133,251,173,126,051 :044,133,252,169,013,172,244 :255,043,145,251,032,251,188 :029,165,252,141,126,044,230 :076,161,028,173,127,044,088	
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7093 7099 7105 7111 7117 7123 7129 7135 7141 7147 7153 7159	:132,044,173,147,044,205,146 :136,044,240,035,205,124,191 :044,240,030,170,189,051,137 :042,142,124,044,174,125,070 :044,134,251,174,126,044,198 :134,252,172,255,043,145,176 :251,032,251,029,165,252,161 :141,126,044,172,133,044,103 :204,134,044,208,028,173,240 :125,044,133,251,173,126,051 :044,133,252,169,013,172,244 :255,043,145,251,032,251,188 :029,165,252,141,126,044,230 :076,161,028,173,127,044,088	
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7093 7099 7105 7111 7123 7129 7135 7141 7147 7153 7159 7165 7171 7177	: $132,044,173,147,044,205,146$: $136,044,240,035,205,124,191$: $044,240,030,170,189,051,137$: $042,142,124,044,174,125,070$: $044,134,251,174,126,044,198$: $134,252,172,255,043,145,176$: $251,032,251,029,165,252,161$: $141,126,044,172,133,044,103$: $204,134,044,208,028,173,240$: $125,044,133,251,173,126,051$: $044,133,252,169,013,172,244$: $255,043,145,251,032,251,188$: $029,165,252,141,126,044,230$: $076,161,028,173,127,044,088$: $133,251,173,128,044,133,091$: $252,172,133,044,177,251,008$: $141,197,044,041,127,141,188$: $196,044,173,197,044,024,181$	
7093 7099 7105 7111 7123 7129 7135 7141 7147 7153 7159 7165 7171 7177 7183 7189	: $132,044,173,147,044,205,146$: $136,044,240,035,205,124,191$: $044,240,030,170,189,051,137$: $042,142,124,044,174,125,070$: $044,134,251,174,126,044,198$: $134,252,172,255,043,145,176$: $251,032,251,029,165,252,161$: $141,126,044,172,133,044,103$: $204,134,044,208,028,173,240$: $125,044,133,251,173,126,051$: $044,133,252,169,013,172,244$: $255,043,145,251,032,251,188$: $029,165,252,141,126,044,230$: $076,161,028,173,127,044,088$: $133,251,173,128,044,133,091$: $252,172,133,044,177,251,008$: $141,197,044,041,127,141,188$: $196,044,173,197,044,024,181$: $010,144,035,173,129,044,044$	
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7093 7099 7105 7111 7123 7129 7135 7141 7147 7153 7159 7165 7171 7177 7183 7189 7195 7201 7207 7213 7219 7225	: $132,044,173,147,044,205,146$: $136,044,240,035,205,124,191$: $044,240,030,170,189,051,137$: $042,142,124,044,174,125,070$: $044,134,251,174,126,044,198$: $134,252,172,255,043,145,176$: $251,032,251,029,165,252,161$: $141,126,044,172,133,044,103$: $204,134,044,208,028,173,240$: $125,044,133,251,173,126,051$: $044,133,252,169,013,172,244$: $255,043,145,251,032,251,188$: $029,165,252,141,126,044,230$: $076,161,028,173,127,044,088$: $133,251,173,128,044,133,091$: $252,172,133,044,177,251,008$: $141,197,044,041,127,141,188$: $196,044,173,197,044,024,181$: $010,144,035,173,129,044,044$: $201,000,208,060,173,125,026$: $044,133,251,173,126,044,036$: $133,252,169,018,172,255,014$: $043,145,251,032,251,029,028$: $169,001,141,129,044,076,099$: $091,028,172,129,044,192,201$	
7093 7099 7105 7111 7123 7129 7135 7141 7147 7153 7159 7165 7171 7177 7183 7189 7195 7201 7207 7213 7219 7225 7231	: $132,044,173,147,044,205,146$: $136,044,240,035,205,124,191$: $044,240,030,170,189,051,137$: $042,142,124,044,174,125,070$: $044,134,251,174,126,044,198$: $134,252,172,255,043,145,176$: $251,032,251,029,165,252,161$: $141,126,044,172,133,044,103$: $204,134,044,208,028,173,240$: $125,044,133,251,173,126,051$: $044,133,252,169,013,172,244$: $255,043,145,251,032,251,188$: $029,165,252,141,126,044,230$: $076,161,028,173,127,044,088$: $133,251,173,128,044,133,091$: $252,172,133,044,177,251,008$: $141,197,044,041,127,141,188$: $196,044,173,197,044,024,181$: $010,144,035,173,129,044,044$: $201,000,208,060,173,125,026$: $044,133,251,173,126,044,036$: $133,252,169,018,172,255,014$: $043,145,251,032,251,029,028$: $169,001,141,129,044,076,099$: $091,028,172,129,044,140,116$	
7093 7099 7105 7111 7123 7129 7135 7141 7147 7153 7159 7165 7171 7177 7183 7195 7201 7207 7213 7207 7213 7219 7225 7231 7237	: $132,044,173,147,044,205,146$: $136,044,240,035,205,124,191$: $044,240,030,170,189,051,137$: $042,142,124,044,174,125,070$: $044,134,251,174,126,044,198$: $134,252,172,255,043,145,176$: $251,032,251,029,165,252,161$: $141,126,044,172,133,044,103$: $204,134,044,208,028,173,240$: $125,044,133,251,173,126,051$: $044,133,252,169,013,172,244$: $255,043,145,251,032,251,188$: $029,165,252,141,126,044,230$: $076,161,028,173,127,044,088$: $133,251,173,128,044,133,091$: $252,172,133,044,177,251,008$: $141,197,044,041,127,141,188$: $196,044,173,197,044,024,181$: $010,144,035,173,129,044,044$: $201,000,208,060,173,125,026$: $044,133,251,173,126,044,036$: $133,252,169,018,172,255,014$: $043,145,251,032,251,029,028$: $169,001,141,129,044,076,099$: $091,028,172,129,044,192,201$: $000,240,025,160,000,140,116$: $129,044,173,125,044,133,205$	
7093 7099 7105 7111 7123 7129 7135 7141 7147 7153 7159 7165 7171 7177 7183 7189 7195 7201 7207 7213 7219 7225 7231	: $132,044,173,147,044,205,146$: $136,044,240,035,205,124,191$: $044,240,030,170,189,051,137$: $042,142,124,044,174,125,070$: $044,134,251,174,126,044,198$: $134,252,172,255,043,145,176$: $251,032,251,029,165,252,161$: $141,126,044,172,133,044,103$: $204,134,044,208,028,173,240$: $125,044,133,251,173,126,051$: $044,133,252,169,013,172,244$: $255,043,145,251,032,251,188$: $029,165,252,141,126,044,230$: $076,161,028,173,127,044,088$: $133,251,173,128,044,133,091$: $252,172,133,044,177,251,008$: $141,197,044,041,127,141,188$: $196,044,173,197,044,024,181$: $010,144,035,173,129,044,044$: $201,000,208,060,173,125,026$: $044,133,251,173,126,044,036$: $133,252,169,018,172,255,014$: $043,145,251,032,251,029,028$: $169,001,141,129,044,076,099$: $091,028,172,129,044,140,116$	

7040	
7249	:169,146,172,255,043,145,243
7255	:251,032,251,029,238,133,253
7261	:044,173,133,044,205,138,062
7267	:044,208,003,076,161,028,107
7273	:173,125,044,133,251,173,236
7279	:126,044,133,252,184,024,106
7285	:173,196,044,141,194,044,141
7291	:041,063,014,194,044,044,011
Contract of the	
7297	:194,044,016,002,009,128,010
73Ø3	:112,002,009,064,201,001,012
7309	:208,002,169,032,172,255,211
7315	:043,145,251,032,251,029,130
7321	:165,252,141,126,044,076,189
7327	:158,027,173,122,044,205,120
7333	:120,044,176,003,076,058,130
7339	:029,173,123,044,205,121,098
7345	:044,176,003,076,058,029,051
7351	:174,188,044,224,000,208,253
7357	:003,076,152,029,032,000,225
7363	:021,172,255,043,174,125,217
7369	:044,134,251,174,126,044,206
7375	:134,252,169,146,145,251,024
7381	:032,251,029,172,255,043,227
7387	:169,026,145,251,162,000,204
7393	:142,255,043,032,204,255,132
7399	:162,204,134,251,162,046,166
7405	:134,252,172,255,043,177,246
7411	:251,141,147,044,032,204,038
7417	:255,162,003,032,201,255,133
7423	:173,147,044,032,210,255,092
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
7429	:032,251,029,173,147,044,169
7435	:201,026,208,224,032,204,138
7441	:255,162,003,032,201,255,157
7447	:169,000,032,210,255,032,209
7453	:210,255,032,210,255,032,255
7459	:204,255,169,003,032,195,125
7465	:255,162,000,142,188,044,064
7471	:024,162,000,160,000,032,169
7477	:240,255,076,019,024,174,073
2000	
7483	:239,043,224,022,208,044,071
7489	:173,188,044,201,000,208,111
7495	:037,173,010,044,201,000,024
75Ø1	
	.240 030 173 125 044 133 054
	:240,030,173,125,044,133,054
75Ø7	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038
A CONTRACTOR OF A	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127
75Ø7 7513	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127
75Ø7 7513 7519	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052
75Ø7 7513 7519 7525	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087
75Ø7 7513 7519 7525 7531	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087 :126,044,169,000,141,132,207
75Ø7 7513 7519 7525	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087 :126,044,169,000,141,132,207 :044,141,133,044,024,165,152
75Ø7 7513 7519 7525 7531	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087 :126,044,169,000,141,132,207
7507 7513 7519 7525 7531 7537 7543	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087 :126,044,169,000,141,132,207 :044,141,133,044,024,165,152 :253,109,246,043,133,253,132
7507 7513 7519 7525 7531 7537 7543 7549	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087 :126,044,169,000,141,132,207 :044,141,133,044,024,165,152 :253,109,246,043,133,253,132 :165,254,105,000,133,254,012
7507 7513 7519 7525 7531 7537 7543 7549 7555	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087 :126,044,169,000,141,132,207 :044,141,133,044,024,165,152 :253,109,246,043,133,253,132 :165,254,105,000,133,254,012 :024,173,127,044,109,246,086
7507 7513 7519 7525 7531 7537 7543 7549 7555 7561	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087 :126,044,169,000,141,132,207 :044,141,133,044,024,165,152 :253,109,246,043,133,253,132 :165,254,105,000,133,254,012 :024,173,127,044,109,246,086 :043,141,127,044,173,128,025
7507 7513 7519 7525 7531 7537 7543 7549 7555	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087 :126,044,169,000,141,132,207 :044,141,133,044,024,165,152 :253,109,246,043,133,253,132 :165,254,105,000,133,254,012 :024,173,127,044,109,246,086
7507 7513 7519 7525 7531 7537 7543 7549 7555 7561	:240,030,173,125,044,133,054 :251,173,126,044,133,252,038 :172,255,043,169,022,145,127 :251,032,251,029,162,000,052 :142,010,044,165,252,141,087 :126,044,169,000,141,132,207 :044,141,133,044,024,165,152 :253,109,246,043,133,253,132 :165,254,105,000,133,254,012 :024,173,127,044,109,246,086 :043,141,127,044,173,128,025 :044,105,000,141,128,044,093
7507 7513 7519 7525 7531 7543 7549 7555 7561 7561 7567 7573	: 240,030,173,125,044,133,054 : 251,173,126,044,133,252,038 :172,255,043,169,022,145,127 : 251,032,251,029,162,000,052 :142,010,044,165,252,141,087 : 126,044,169,000,141,132,207 : 044,141,133,044,024,165,152 : 253,109,246,043,133,253,132 : 165,254,105,000,133,254,012 : 024,173,127,044,109,246,086 : 043,141,127,044,173,128,025 : 044,105,000,141,128,044,093 : 076,224,026,172,255,043,177
7507 7513 7519 7525 7531 7537 7543 7549 7555 7561 7567 7573 7579	: 240,030,173,125,044,133,054 : 251,173,126,044,133,252,038 :172,255,043,169,022,145,127 : 251,032,251,029,162,000,052 :142,010,044,165,252,141,087 : 126,044,169,000,141,132,207 : 044,141,133,044,024,165,152 : 253,109,246,043,133,253,132 : 165,254,105,000,133,254,012 : 024,173,127,044,109,246,086 : 043,141,127,044,173,128,025 : 044,105,000,141,128,044,093 : 076,224,026,172,255,043,177 : 174,125,044,134,251,174,033
7507 7513 7519 7525 7531 7537 7543 7549 7555 7561 7567 7573 7579 7585	: 240,030,173,125,044,133,054 : 251,173,126,044,133,252,038 :172,255,043,169,022,145,127 : 251,032,251,029,162,000,052 :142,010,044,165,252,141,087 : 126,044,169,000,141,132,207 : 044,141,133,044,024,165,152 : 253,109,246,043,133,253,132 : 165,254,105,000,133,254,012 : 024,173,127,044,109,246,086 : 043,141,127,044,173,128,025 : 044,105,000,141,128,044,093 : 076,224,026,172,255,043,177 : 174,125,044,134,251,174,033 : 126,044,134,252,169,146,008
7507 7513 7519 7525 7531 7537 7543 7549 7555 7561 7567 7573 7579 7585 7591	: 240,030,173,125,044,133,054 : 251,173,126,044,133,252,038 :172,255,043,169,022,145,127 : 251,032,251,029,162,000,052 :142,010,044,165,252,141,087 : 126,044,169,000,141,132,207 : 044,141,133,044,024,165,152 : 253,109,246,043,133,253,132 : 165,254,105,000,133,254,012 : 024,173,127,044,109,246,086 : 043,141,127,044,173,128,025 : 044,105,000,141,128,044,093 : 076,224,026,172,255,043,177 : 174,125,044,134,251,174,033 : 126,044,134,252,169,146,008 : 145,251,032,251,029,172,023
7507 7513 7519 7525 7531 7537 7543 7549 7555 7561 7567 7573 7579 7585	: 240,030,173,125,044,133,054 : 251,173,126,044,133,252,038 :172,255,043,169,022,145,127 : 251,032,251,029,162,000,052 :142,010,044,165,252,141,087 : 126,044,169,000,141,132,207 : 044,141,133,044,024,165,152 : 253,109,246,043,133,253,132 : 165,254,105,000,133,254,012 : 024,173,127,044,109,246,086 : 043,141,127,044,173,128,025 : 044,105,000,141,128,044,093 : 076,224,026,172,255,043,177 : 174,125,044,134,251,174,033 : 126,044,134,252,169,146,008
7507 7513 7519 7525 7531 7537 7543 7549 7555 7561 7567 7573 7579 7585 7591 7597	: 240,030,173,125,044,133,054 : 251,173,126,044,133,252,038 :172,255,043,169,022,145,127 : 251,032,251,029,162,000,052 :142,010,044,165,252,141,087 : 126,044,169,000,141,132,207 : 044,141,133,044,024,165,152 : 253,109,246,043,133,253,132 : 165,254,105,000,133,254,012 : 024,173,127,044,109,246,086 : 043,141,127,044,173,128,025 : 044,105,000,141,128,044,093 : 076,224,026,172,255,043,177 : 174,125,044,134,251,174,033 : 126,044,134,252,169,146,008 : 145,251,032,251,029,172,023 : 255,043,169,026,145,251,038
7507 7513 7519 7525 7531 7537 7543 7549 7555 7561 7567 7573 7579 7585 7591 7597 7597 7603	: $240,030,173,125,044,133,054$: $251,173,126,044,133,252,038$: $172,255,043,169,022,145,127$: $251,032,251,029,162,000,052$: $142,010,044,165,252,141,087$: $126,044,169,000,141,132,207$: $044,141,133,044,024,165,152$: $253,109,246,043,133,253,132$: $165,254,105,000,133,254,012$: $024,173,127,044,109,246,086$: $043,141,127,044,109,246,086$: $043,141,127,044,173,128,025$: $044,105,000,141,128,044,093$: $076,224,026,172,255,043,177$: $174,125,044,134,251,174,033$: $126,044,134,252,169,146,008$: $145,251,032,251,029,172,023$: $255,043,169,026,145,251,038$: $169,023,141,131,044,032,207$
7507 7513 7519 7525 7531 7543 7549 7555 7561 7567 7573 7579 7585 7591 7597 7597 7503 7599 7593 7599	: 240,030,173,125,044,133,054 : 251,173,126,044,133,252,038 :172,255,043,169,022,145,127 : 251,032,251,029,162,000,052 :142,010,044,165,252,141,087 : 126,044,169,000,141,132,207 : 044,141,133,044,024,165,152 : 253,109,246,043,133,253,132 : 165,254,105,000,133,254,012 : 024,173,127,044,109,246,086 : 043,141,127,044,173,128,025 : 044,105,000,141,128,044,093 : 076,224,026,172,255,043,177 : 174,125,044,134,251,174,033 : 126,044,134,252,169,146,008 : 145,251,032,251,029,172,023 : 255,043,169,026,145,251,038 : 169,023,141,131,044,032,207 : 246,021,032,214,021,173,124
7507 7513 7519 7525 7531 7543 7549 7555 7561 7567 7573 7579 7585 7591 7597 7591 7597 7603 7609 7615	: 240,030,173,125,044,133,054 : 251,173,126,044,133,252,038 :172,255,043,169,022,145,127 : 251,032,251,029,162,000,052 :142,010,044,165,252,141,087 : 126,044,169,000,141,132,207 : 044,141,133,044,024,165,152 : 253,109,246,043,133,253,132 : 165,254,105,000,133,254,012 : 024,173,127,044,109,246,086 : 043,141,127,044,173,128,025 : 044,105,000,141,128,044,093 : 076,224,026,172,255,043,177 : 174,125,044,134,251,174,033 : 126,044,134,252,169,146,008 : 145,251,032,251,029,172,023 : 255,043,169,026,145,251,038 : 169,023,141,131,044,032,207 : 246,021,032,214,021,173,124 : 131,044,201,017,208,246,014
7507 7513 7519 7525 7531 7543 7549 7555 7561 7573 7579 7573 7579 7585 7591 7597 7603 7609 7615 7621	: $240,030,173,125,044,133,054$: $251,173,126,044,133,252,038$: $172,255,043,169,022,145,127$: $251,032,251,029,162,000,052$: $142,010,044,165,252,141,087$: $126,044,169,000,141,132,207$: $044,141,133,044,024,165,152$: $253,109,246,043,133,253,132$: $165,254,105,000,133,254,012$: $024,173,127,044,109,246,086$: $043,141,127,044,173,128,025$: $044,105,000,141,128,044,093$: $076,224,026,172,255,043,177$: $174,125,044,134,251,174,033$: $126,044,134,252,169,146,008$: $145,251,032,251,029,172,023$: $255,043,169,026,145,251,038$: $169,023,141,131,044,032,207$: $246,021,032,214,021,173,124$: $131,044,201,017,208,246,014$
7507 7513 7519 7525 7531 7543 7549 7555 7561 7567 7573 7579 7585 7591 7597 7591 7597 7603 7609 7615	: $240,030,173,125,044,133,054$: $251,173,126,044,133,252,038$: $172,255,043,169,022,145,127$: $251,032,251,029,162,000,052$: $142,010,044,165,252,141,087$: $126,044,169,000,141,132,207$: $044,141,133,044,024,165,152$: $253,109,246,043,133,253,132$: $165,254,105,000,133,254,012$: $024,173,127,044,109,246,086$: $043,141,127,044,173,128,025$: $044,105,000,141,128,044,093$: $076,224,026,172,255,043,177$: $174,125,044,134,251,174,033$: $126,044,134,252,169,146,008$: $145,251,032,251,029,172,023$: $255,043,169,026,145,251,038$: $169,023,141,131,044,032,207$: $246,021,032,214,021,173,124$: $131,044,201,017,208,246,014$
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7507 7513 7519 7525 7531 7543 7549 7555 7561 7567 7573 7579 7585 7591 7597 7603 7609 7615 7621 7627 7633	: 240,030,173,125,044,133,054 : 251,173,126,044,133,252,038 :172,255,043,169,022,145,127 : 251,032,251,029,162,000,052 :142,010,044,165,252,141,087 : 126,044,169,000,141,132,207 : 044,141,133,044,024,165,152 : 253,109,246,043,133,253,132 : 165,254,105,000,133,254,012 : 024,173,127,044,109,246,086 : 043,141,127,044,173,128,025 : 044,105,000,141,128,044,093 : 076,224,026,172,255,043,177 : 174,125,044,134,251,174,033 : 126,044,134,252,169,146,008 : 145,251,032,251,029,172,023 : 255,043,169,026,145,251,038 : 169,023,141,131,044,032,207 : 246,021,032,214,021,173,124 : 131,044,201,017,208,246,014 : 162,204,134,251,162,046,132 : 134,252,162,000,142,255,124 : 043,172,255,043,177,251,126
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9391	:173,001,044,041,015,170,107
9397	:189,222,042,141,155,044,206
94Ø3	:162,002,142,145,044,169,083
9409	:017,141,131,044,032,246,036
9415	:021,174,145,044,189,150,154
9421	:044,141,131,044,032,246,075
9427	:021,238,145,044,174,145,210
9433	:044,224,006,144,234,173,018
9439	:004,044,141,131,044,032,107
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9457	:145,044,174,016,044,202,098
9463	:142,013,044,174,145,044,041
9469	:189,199,042,141,131,044,231
9475	:032,246,021,238,145,044,217
9481	:174,145,044,236,013,044,153
9487	:144,233,169,013,141,131,078
9493	:044,032,246,021,032,214,098
9499	:021,173,131,044,201,027,112
95Ø5	:240,024,201,003,208,242,183
9511	:032,204,255,032,093,041,184
9517	:032,089,035,032,089,035,101
9523	:162,000,142,118,044,076,081
9529	:254,018,032,204,255,169,221
9535	:001,162,008,160,002,032,172
9541	:186,255,174,016,044,232,208
9547	:232,138,162,199,160,042,240
9553	:032,189,255,032,192,255,012
9559	:032,128,039,174,118,044,110
9565	:224,001,208,028,169,001,212
9571	:032,195,255,032,204,255,048
9577	:169,003,141,131,044,032,113
and some the second second	
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9589	:089,035,032,089,035,076,217
9595	:254,018,162,001,032,198,020
96Ø1	:255,162,000,142,007,044,227
96Ø7	:142,008,044,142,009,044,012
9613	:142,014,044,032,089,035,241
9619	:032,204,255,162,001,032,065
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9631	:044,162,000,142,145,044,184
9637	:032,204,255,162,001,032,083
9643	:198,255,032,207,255,174,012
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9655	:145,044,032,247,020,173,076
9661	:189,044,201,000,240,008,103
9667	:162,001,142,014,044,076,122
9673	:210,037,174,145,044,224,011
9679	:036,208,211,169,001,141,205
9685	:143,044,160,000,140,015,203
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9697	:044,141,150,044,238,015,089
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9745	:157,239,044,141,007,044,137
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9793	:157,239,044,238,143,044,162
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9817	:238,143,044,173,150,044,113
9823	:041,015,170,189,222,042,006
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9835	:238,143,044,169,013,174,120
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9847	:000,142,144,044,174,144,255
9853	:044,189,239,044,141,131,145
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9883	:208,222,032,214,021,173,001
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9895	:174,014,044,224,001,240,096
9901	:045,076,130,037,201,003,153
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2222	:099,039,032,086,039,032,012
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9937	:001,032,195,255,032,076,032
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	:162,000,142,011,044,032,106
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and the second second	
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10189	:076,003,040,162,000,142,116
10195	:146,044,142,119,044,032,226
10201	:204,255,032,018,040,174,172
10207	:146,044,189,158,044,201,237
10213	:044,240,009,032,210,255,251
10219	:238,146,044,076,222,039,232
10225	:174,119,044,224,000,208,242
10231	:011,032,210,255,162,001,150
10237	:142,119,044,076,235,039,140
10243	:032,204,255,024,174,249,173
10249	:043,202,202,160,000,032,136
10255	:240,255,096,024,174,249,029
10261	:043,160,000,032,240,255,239
10267	:162,000,142,148,044,169,180
10273	:032,032,210,255,238,148,180
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10363 10369 10375 10381 10387 10393 10399 10405 10411	:255,201,000,240,249,201,245 :049,208,245,141,017,044,065 :032,210,255,032,228,255,123 :201,000,240,249,201,020,028 :208,016,174,145,044,224,190 :001,240,238,032,210,255,105 :206,145,044,076,138,040,040 :201,013,208,006,032,210,067 :255,076,196,040,201,048,219
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10777	:024,208,009,002,141,024,177
10783	:208,096,173,005,144,041,186
10789	:253,141,005,144,096,173,081
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10801	:144,096,144,005,028,159,113
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10849	:082,032,077,069,083,083,011
10855	:065,071,069,000,042,083,177
10861	:067,082,069,069,078,032,250
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10999	:000,213,208,204,207,193,248
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11017	:079,032,067,065,078,067,141
11023	:069,076,032,013,000,036,241
11029	:048,058,064,033,037,033,038
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11053	:000,000,000,000,000,000,013,058
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11095	:084,032,070,073,084,042,216
11101	:013,000,196,207,215,206,162
11107	:204,207,193,196,013,195,083
11113	:212,210,204,045,195,032,235
11119	:084,079,032,067,065,078,004
11125	:067,069,076,013,000,013,099
11131	:207,203,032,067,079,078,021
11137	:084,073,078,085,069,013,019
11143	:000,013,042,084,082,065,165
11149	:078,083,077,073,083,083,106
11155	:073,079,078,042,013,042,218
11161	:071,065,082,066,076,069,070
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11209	:066,089,080,065,083,083,155
11215	:032,072,065,078,068,083,093
11221	:072,065,075,069,013,000,251
11227	:042,077,069,083,083,065,126
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Bug-Swatter: Modifications And Corrections

• Programs 3 and 4 from "Disk Tricks" (September) were designed to scratch and unscratch (recover) files from a disk. Several readers have informed us that it is essential to use the Validate command after using either of these programs. OPEN 15,8,15: PRINT#15, "V0" :CLOSE 15 properly validates the disk and updates the Block Allocation Map (BAM). You can validate in direct mode or from within the program, but it should be noted that this command can destroy random files (program, sequential, and relative files are safe). See the 1541 User's Manual for more information about validating.

Without this line, the scratch program will scratch a file, but not free up the disk space used by the program. More seriously, if a program is unscratched without validating the disk, subsequent SAVEs can overwrite the disk space used by the program.

For corrections to program 2 (Change Disk ID) see last month's Bug-Swatter.

• "Screen-80" (September) works as listed with a 64 and disk drive. However, tape users have had problems reloading the program after using MLX. This is not a flaw in Screen-80; it happens because MLX saves ML programs as *absolute* files, the equivalent of SAVE "program",1,1. Screen-80 is created at memory location 49152 but is meant to be relocated to the beginning of BASIC.

If you've typed in Screen-80 and saved it to

tape, however, you won't have to retype it. Just load MLX and change line 763. The third POKE (POKE 782,1) should be changed to POKE 782,0. Change line 763 and enter RUN. Use the same starting address (49152) and ending address (52811). Use SHIFT-L to load Screen-80 from tape. Then SHIFT-S to save it to tape. The modification to line 763 will cause the newly saved program to be relocatable. You can then turn your 64 off and on, and load Screen-80. If you LIST it, you should see one line with a SYS command. Type RUN and you'll have 80 columns. We regret any inconvenience this error has caused our readers.

• Reader Ina Neiman uses the 64 version of "Spelling Critter" (June) in her classroom and has discovered that vocabulary words which are contractions (can't, won't, and so on) are not accepted by the program. The program allows only letters between A and Z. To include apostrophes, add the following line:

885 IF ASC(Z\$)=39 THEN A=39:GOTO 920

• The 64 version of "Mystery At Marple Manor" (September) works as listed, but there are two minor corrections.

First, in line 27 the Automatic Proofreader number is correct, but the line is not. The last English pound sign (£) should have been underlined, to indicate a SHIFTed character. This typo affects only part of the graphics on the title screen.

Second, if you choose to stay in a room and type a letter which is not on the menu, the screen may go blank (although further input will be accepted). To reprint the menu after typing an incorrect letter, change lines 390 and 400, replacing all 387s and 398s in these lines with a 375 (the beginning of the routine which prints the menu).







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