

A Full Report From Summer CES And COMDEX

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The Leading Magazine Of Home, Educational, And Recreational Computing

Climber 5

An exciting arcade action game for the Atari, Commodore 64, Amiga, IBM PC/PCjr, and Apple II

XPressCard

A powerful, full-featured filing program for the Commodore 64

Compress And Decompress For Apple II

Store more hi-res picture files on disk

Comparing BASIC Programs For IBM PC/PCjr

BASIC Batch Files With Atari DOS

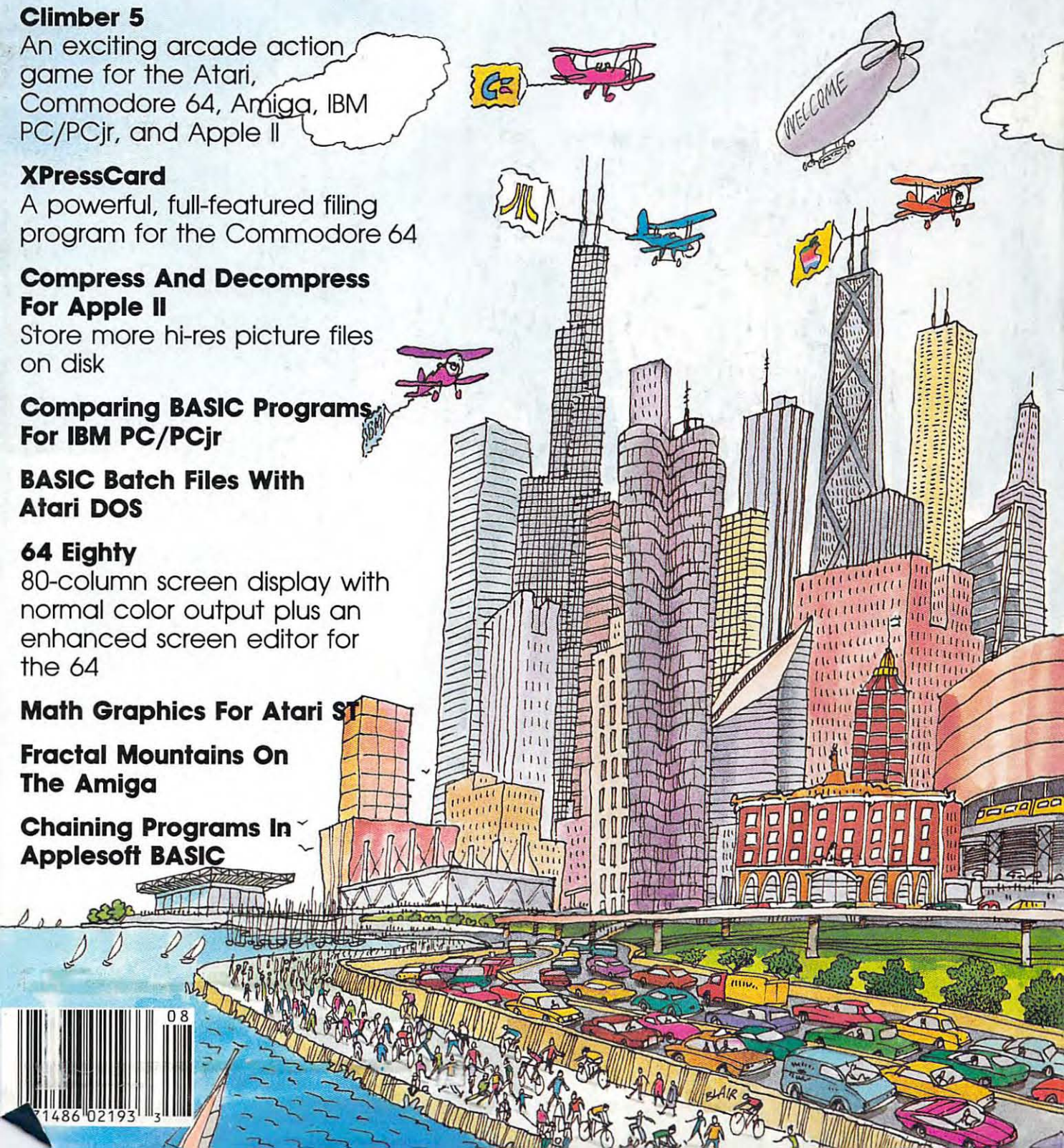
64 Eighty

80-column screen display with normal color output plus an enhanced screen editor for the 64

Math Graphics For Atari ST

Fractal Mountains On The Amiga

Chaining Programs In Applesoft BASIC



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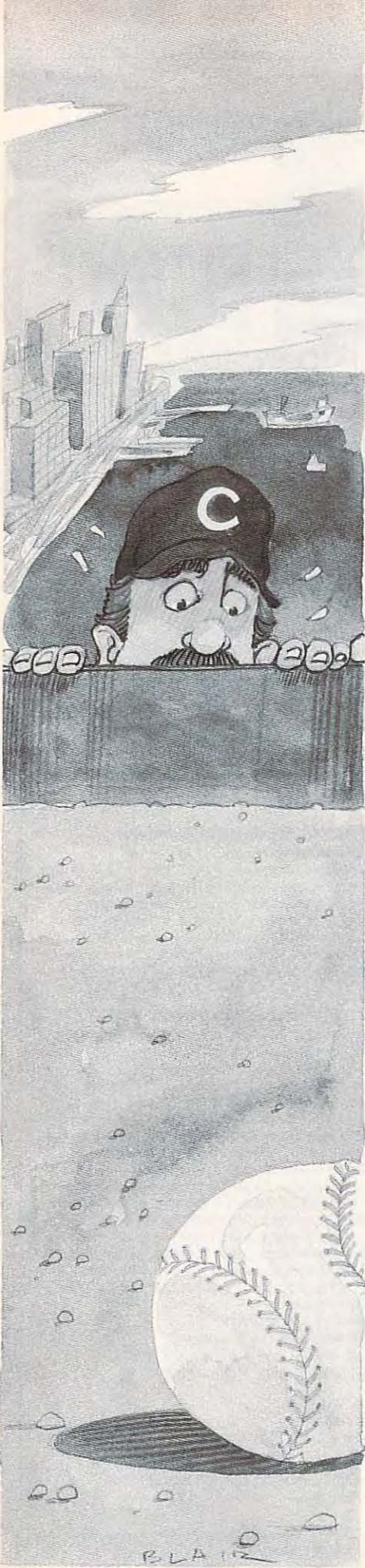
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Climber 5

James Rogers

This fast-moving arcade game is right in season. As ballboy for a baseball team, it's your job to retrieve a home-run ball from the top of a nearby building. Time is of the essence, but you still need to avoid moving obstacles on your way to the top. The Atari and Commodore 64 versions require a joystick. The Atari version also requires a disk drive. The Amiga version requires at least 512K of memory. The IBM PC/PCjr version requires BASICA or GW-BASIC and a color/graphics adapter for the PC and compatibles, and Cartridge BASIC for the PCjr. The Apple II version runs under either DOS 3.3 or ProDOS.

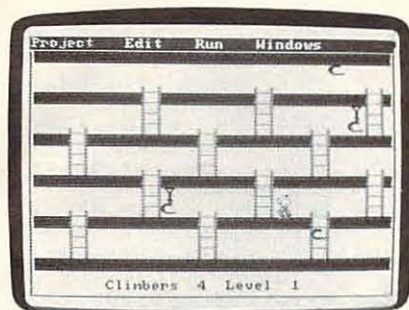
"Play ball," the umpire cries, and the game begins. As ballboy for the home team, your job is easy: Retrieve stray balls and return them to the umpire. The number 5 on the back of your uniform shows that you're part of the team, and your job is more important than some might think, since it so happens that this game is being played with only one baseball. If a ball flies into the stands or out of the park, the game grinds to a halt while a stadium full of fans and players waits for you to bring it back.

You're used to the pressure, but that doesn't make the waiting any easier. The first inning passes,

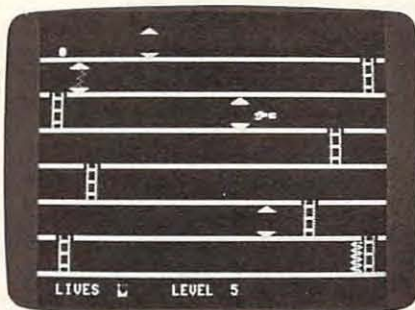
followed by the second and third, without any problem. Then, at the top of the fourth inning, the first batter swats a towering homer over the left-field wall. Up, up it goes, so high that you grab your field glasses to track it. Yes, it's outside the stadium—looks like a long sprint to get it back. Oh, no! Did that really happen? The ball lodges at the top of a neighboring building which is still under construction. As you rush to retrieve the prize, you'll have to duck and dodge to avoid obstacles on the construction site.

The original version of "Climber 5" is written for the Atari 400, 800, XL, and XE computers. We've added new translations for the Commodore 64, Amiga, Apple II series, and IBM PC/PCjr and compatibles. Type in the version for your computer and save a copy; then run the program.

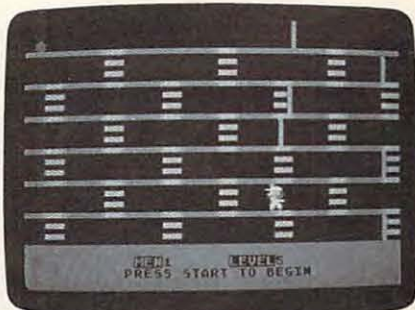
The Climber 5 screen consists of several horizontal levels. When the game begins, you are at the bottom right corner of the screen, and the ball is at the upper left. Your job is to climb and run to where the ball lies, avoiding all the moving obstacles along the way. Since some of the moving objects are speedy indeed, that's more difficult than you might imagine at first. You can move left or right with the joystick or keyboard controls, depending on what version



"Climber 5" for the Atari 400, 800, XL, and XE is a fast-action arcade game in a novel setting.



The Commodore 64 version of "Climber 5" requires you to avoid moving sweepers and electrodes.



The shapes for the Amiga version of "Climber 5" were drawn with Deluxe Paint and converted for use in BASIC.

you're playing.

Each level is connected to the next by one or more ladders. The joystick or keyboard controls allow you to move up or down a ladder; of course, you must be aligned with the ladder in order to ascend or descend on it.

You have a total of five players when the game begins. Whenever you hit a moving object, you lose one player. The game ends when you have lost all your players. If you reach the ball without being hit, the program displays a congratulatory message and lets you try the next skill level, where everything becomes more difficult.

Atari 400, 800, XL, And XE Version

Since the Atari version is written entirely in machine language, special steps are required to run the program. Program 1 is a BASIC program that creates a binary file on disk containing the machine language data for Climber 5. Type in Program 1 and save a copy before you run it. If an error is detected in the DATA statements, you'll see a message to that effect; otherwise, a file named C5.OBJ will be written to disk. Once you have created this file, you don't need to run Program 1 again except to create new copies of the binary file.

With one of the Atari versions of DOS, you load the game by entering the DOS menu and using the L option to load the binary file (C5.OBJ). You then use DOS option M to begin executing the program. Specify 4000 as the execution address. If you use DOS XL, OS/A+, or a similar alternative DOS, you

can start the game simply by typing C5.OBJ at a DOS prompt.

A joystick is required to play this game. Press START to begin the game or to restart it when a game is over.

Commodore 64 Version

The Commodore 64 version of Climber 5 (Program 2) is written in machine language and must be entered with the "MLX" machine language entry program printed elsewhere in this issue. Here are the addresses you need to type in the program with MLX:

Starting address: 0801
Ending address: 1500

After you have typed in all the data from Program 2, be sure to save a copy before you leave MLX.

Although the program is written in machine language, it can be loaded and run like a BASIC program. This version requires a joystick. Plug the joystick into port 2. The objects to be avoided are sweepers and moving electrodes. You can jump through an electrode, but the sweepers must be avoided at all costs. Press the joystick button to jump. There are five different buildings to climb. Objects come only from the left in the first five levels, and from both directions on higher levels. You can pause the game temporarily by holding down the SHIFT key. For longer pauses, use the SHIFT LOCK key.

Amiga Version

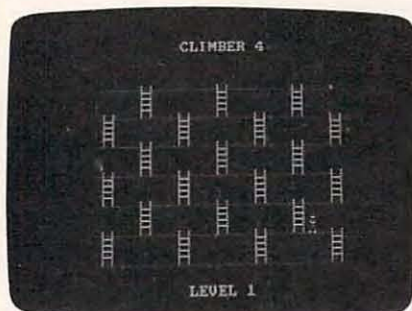
The Amiga version of Climber 5 (Program 3) requires 512K of memory and it is played with keyboard controls. In this game you must avoid moving hooks of various

sizes. The short hooks may be evaded by ducking down (press the down cursor key to duck).

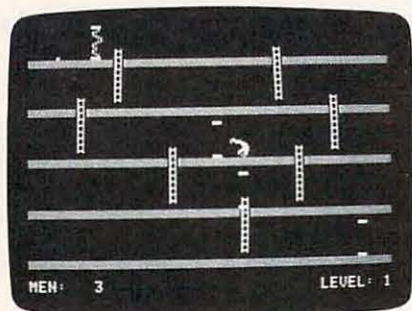
The shapes for the animated climber and moving hooks were first drawn with *Deluxe Paint* and then converted for BASIC with the "IFF Translator" program published in the April, 1987 issue of *COMPUTE!*. A simple compression algorithm is used to reduce the amount of shape data you need to type in. The subroutine ReadCompressed handles data for one shape each time it is called. Data elements with a value less than 40000 are stored directly in the shape array. Any number greater than 40000 represents a group of zero values. The routine subtracts 40000 from the value to determine how many zeros to place in the array. For instance, the number 40015 means that we need to put 15 zeros in the array. The number 40000 is used because a normal shape data value would never be greater than 32768. One reason the shape data contains many zeros is that not all the colors are used in every shape.

IBM PC/PCjr Version

Climber 5 for the IBM PC/PCjr (Program 4) requires BASICA or GW-BASIC and a color/graphics card for the PC and compatibles, and Cartridge BASIC for the PCjr. Use the cursor keys on the numeric keypad to move left, right, up, and down. In this version, the ball begins at the upper right of the screen and moves left as you move to higher skill levels. The number in the title at the top of the screen indicates how many players you have left.



IBM PC/PCjr version of "Climber 5" is an amusing action game.



The animated climber makes a somersault in the Apple II version of "Climber 5."

Apple II Version

The Apple II version of Climber 5 (Program 5) runs on any Apple II series computer, under either DOS 3.3 or ProDOS. Because the program is written in machine language, it must be entered with the Apple version of the "MLX" machine language entry program found elsewhere in this issue. Before you load MLX, you must take a special step to protect the Climber 5 data while it is being entered. Enter the following line in immediate mode (without a line number) before loading MLX:

POKE 104,32: POKE 8192,0: NEW

If you enter the program in multiple sessions, remember to enter this line each time before loading MLX.

When you run MLX, you'll be asked for a starting address and an ending address for the data you'll be entering. For Climber 5, use the following values:

STARTING ADDRESS? 0C00
ENDING ADDRESS? 1EBF

After you have entered all the data, be sure to save a copy before leaving MLX.

To start the game, use a command of the form **BRUN filename**, where *filename* is the name you used for the Climber 5 data. The game is played with keyboard controls. Press the I, J, K, or L keys to move up, left, down, or right, respectively. In this version, you can avoid objects by leaping straight up or by somersaulting to the left or right. Press the U or O key to somersault left or right, respectively. Press the space bar to jump straight up.

Program 1: Atari Climber 5

For instructions on entering this program, please refer to "COMPUTE!'s Guide to Typing In Programs" elsewhere in this issue.

```

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AO 2 PRINT "(CLEAR) COPYRIGHT
    1987":PRINT "COMPUTE!
    PUBLICATIONS, INC.":PRI
    NT "ALL RIGHTS RESERVED
    .":? "(3 DOWN)CREATING
    FILE."
EC 3 FOR H=1 TO 2355
FB 4 READ A:CK=CK+A:NEXT H
HO 5 IF CK<>263962 THEN PRIN
    T "TYPING ERROR":END
OL 6 OPEN #1,8,0,"D:C5.OBJ"
KE 7 RESTORE :FOR H=1 TO 235
    5
EK 8 READ A:PUT #1,A:NEXT H
HN 10 DATA 255,255,0,64,251,
    64,32,122
ID 20 DATA 72,165,106,56,233
    ,16,141,7
LH 30 DATA 212,141,165,6,169
    ,62,141,47
IJ 40 DATA 2,169,3,141,29,20
    8,173,165
DJ 50 DATA 6,24,105,3,133,20
    8,169,0
EJ 60 DATA 133,207,162,5,160
    ,0,169,0
HB 70 DATA 145,207,200,208,2
    49,230,208,202
IH 80 DATA 208,242,173,165,6
    ,24,105,6
PC 90 DATA 133,208,169,28,13
    3,207,162,7
KL 100 DATA 142,166,6,160,0,
    162,20,169
EA 110 DATA 3,145,207,200,20
    2,208,248,165
EF 120 DATA 207,24,105,24,13
    3,207,174,166
BF 130 DATA 6,202,208,228,23
    0,208,169,40
OF 140 DATA 133,207,162,8,16
    0,0,185,192
HK 150 DATA 65,145,207,200,2
    02,208,247,173
KP 160 DATA 165,6,24,105,4,1
    33,204,173
LI 170 DATA 165,6,24,105,5,1
    33,206,169
HO 180 DATA 0,141,8,208,141,
    9,208,141
NG 190 DATA 10,208,141,11,20
    8,141,8,210
BA 200 DATA 169,3,141,15,210
    ,169,134,141
LN 210 DATA 192,2,169,62,141
    ,193,2,169
BL 220 DATA 92,141,194,2,169

```

```

,120,141,195
IH 230 DATA 2,169,154,141,19
    6,2,169,0
LN 240 DATA 141,197,2,169,60
    ,141,198,2
LA 250 DATA 169,0,141,200,2,
    169,19,133
FF 260 DATA 224,169,66,133,2
    25,169,50,141
HL 270 DATA 3,208,169,0,141,
    221,6,141
KO 280 DATA 222,6,169,33,141
    ,111,2,162
CO 290 DATA 7,160,0,169,0,15
    3,184,6
EG 300 DATA 200,202,208,247,
    32,177,67,160
OE 310 DATA 1,169,240,145,20
    7,160,8,162
DO 320 DATA 6,169,138,145,20
    7,200,200,200
DJ 330 DATA 200,200,252,64,2
    47,65,200,202
DO 340 DATA 208,243,169,158,
    141,0,2,169
IE 350 DATA 68,141,1,2,169,1
    92,141,14
PB 360 DATA 212,160,246,162,
    67,169,7,32
CO 370 DATA 92,228,32,177,67
    ,169,134,141
IJ 380 DATA 168,6,32,120,67,
    162,6,142
LL 390 DATA 166,6,160,0,162,
    20,169,255
KG 400 DATA 145,207,200,202,
    208,248,169,120
OM 410 DATA 141,168,6,32,120
    ,67,174,166
KO 420 DATA 6,202,208,227,16
    0,0,32,177
PB 430 DATA 67,169,138,141,1
    68,6,32,120
IP 440 DATA 67,169,3,141,171
    ,6,169,22
ME 450 DATA 141,172,6,32,188
    ,67,32,177
PE 460 DATA 67,169,255,141,1
    68,6,32,120
JG 470 DATA 67,169,4,141,171
    ,6,169,16
MK 480 DATA 141,172,6,32,188
    ,67,173,48
LG 490 DATA 2,24,105,41,133,
    207,173,49
HA 500 DATA 2,105,4,133,208,
    160,0,162
DP 510 DATA 15,185,201,65,14
    5,207,200,202
LJ 520 DATA 208,247,173,48,2
    ,24,105,44
LD 530 DATA 133,218,173,49,2
    ,105,4,133
LK 540 DATA 219,173,48,2,24,
    105,56,133
KM 550 DATA 220,173,49,2,105
    ,4,133,221
LD 560 DATA 173,48,2,24,105,
    80,133,222
IJ 570 DATA 173,49,2,105,4,1
    33,223,76
FP 580 DATA 198,68,24,24,60,
    60,60,60
II 590 DATA 60,24,24,173,165
    ,174,16,0
KF 600 DATA 0,0,0,0,172,16
    5,182
IJ 610 DATA 165,172,16,48,50
    ,37,51,51
KM 620 DATA 0,51,52,33,50,52
    ,0,52
CC 630 DATA 47,0,34,37,39,41
    ,46,121
BK 640 DATA 96,121,96,81,96,
    81,60,72

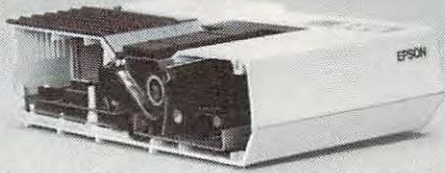
```


JI 650	DATA 72,60,248,65,243,66,72,72	OL 1070	DATA 31,62,124,126,11,39,97,28	BI 1280	DATA 220,169,80,141,168,6,32,120
DC 660	DATA 47,47,53,53,60,60,47,47	OF 1080	DATA 62,254,32,60,116,124,24,56	AB 1290	DATA 67,174,240,67,235,68,166,6
ED 670	DATA 72,72,81,81,47,47,96,96	KN 1090	DATA 28,62,43,34,112,126,110,6	EI 1300	DATA 202,208,201,96,72,138,72,152
FM 680	DATA 108,108,47,47,128,128,144,144	DL 1100	DATA 0,0,36,0,72,0,36,0	EB 1310	DATA 72,165,224,24,105,18,133,226
HI 690	DATA 121,56,124,127,120,124,212,192	EK 1110	DATA 72,40,40,37,35,35,37,40	AI 1320	DATA 165,225,105,0,133,227,160,0
OB 700	DATA 230,96,0,252,220,92,124,108	FF 1120	DATA 42,45,47,50,53,57,60,64	EH 1330	DATA 162,18,169,0,145,203,145,205
OI 710	DATA 108,72,108,56,124,127,4,124	MA 1130	DATA 68,72,76,81,121,96,121,81	GP 1340	DATA 200,202,208,246,173,212,6,133
GI 720	DATA 46,62,24,28,56,248,56,56	BL 1140	DATA 121,72,165,207,24,109,168,6	EC 1350	DATA 203,133,205,160,0,162,18,177
KN 730	DATA 124,108,108,0,0,56,124,127	HC 1150	DATA 133,207,165,208,105,0,133,208	NL 1360	DATA 224,145,203,177,226,145,205,200
BD 740	DATA 120,124,212,192,230,96,0,254	PL 1160	DATA 96,169,1,141,168,6,172,169	BB 1370	DATA 202,208,244,173,218,6,201,1
BO 750	DATA 254,60,62,126,102,224,192,56	LI 1170	DATA 6,162,7,173,213,6,205,166	PJ 1380	DATA 208,53,238,219,6,174,219,6
IJ 760	DATA 124,127,4,124,46,62,24,28	OH 1180	DATA 6,240,23,238,166,6,202,208	EM 1390	DATA 224,4,144,5,169,0,141,1
AF 770	DATA 56,249,57,124,126,122,96,96	BB 1190	DATA 242,173,166,6,24,105,41,141	NJ 1400	DATA 210,224,5,144,34,169,0,141
BE 780	DATA 0,56,124,127,120,124,212,192	BK 1200	DATA 166,6,136,208,228,169,0,141	PF 1410	DATA 219,6,174,220,6,189,237,65
OL 790	DATA 230,96,0,120,248,124,62,126	LP 1210	DATA 168,6,96,173,48,2,133,207	AD 1420	DATA 141,0,210,169,164,141,1,210
BN 800	DATA 246,228,134,56,124,127,4,124	LJ 1220	DATA 173,49,2,133,208,96,162,3	OB 1430	DATA 238,220,6,174,220,6,224,38
IO 810	DATA 46,62,24,28,56,124,212,68	LG 1230	DATA 142,166,6,162,4,142,167,6	LA 1440	DATA 144,5,169,0,141,220,6,173
IE 820	DATA 14,126,118,96,0,24,60,126	GA 1240	DATA 174,171,6,169,85,145,207,169	LC 1450	DATA 221,6,201,1,208,38,169,42
EO 830	DATA 126,126,126,126,60,60,126,255	LA 1250	DATA 6,141,168,6,32,120,67,202	ON 1460	DATA 141,3,210,174,222,6,189,95
EM 840	DATA 255,255,60,126,126,126,102,24	BO 1260	DATA 208,241,173,172,6,141,168,6	OG 1470	DATA 67,141,2,210,238,222,6,173
HG 850	DATA 60,126,60,0,0,0,0,60	BL 1270	DATA 32,120,67,174,167,6,202,208	LD 1480	DATA 222,6,201,19,208,14,169,0
DP 860	DATA 102,110,102,52,36,126,126,126				
EN 870	DATA 102,56,124,124,124,124,125,59				
MD 880	DATA 127,254,252,248,254,127,127,127				
LI 890	DATA 118,112,32,56,124,124,57,1				
CB 900	DATA 0,0,124,76,92,72,110,79				
OJ 910	DATA 127,127,118,112,32,28,62,62				
OJ 920	DATA 62,62,190,220,254,127,63,31				
OK 930	DATA 127,254,254,254,110,14,4,28				
BP 940	DATA 62,62,156,128,0,0,62,50				
BI 950	DATA 54,18,122,242,254,254,110,14				
PD 960	DATA 4,28,62,254,30,62,43,3				
GC 970	DATA 103,6,244,66,239,67,0,63				
EA 980	DATA 59,58,62,54,54,18,54,28				
LO 990	DATA 62,254,32,60,116,124,24,56				
EL 1000	DATA 28,31,28,28,62,54,54,0				
BC 1010	DATA 0,28,62,254,30,62,43,3				
NF 1020	DATA 103,6,0,127,127,60,124,126				
EH 1030	DATA 102,7,3,28,62,254,32,60				
CA 1040	DATA 116,124,24,56,28,159,156,62				
CD 1050	DATA 126,94,6,6,0,28,62,254				
NH 1060	DATA 30,62,43,3,103,6,0,30				

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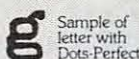
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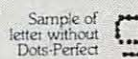
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KI 1490	DATA 141,222,6,141,2 21,6,141,3	JC 1910	DATA 68,76,12,69,169 3,141,30	EP 2330	DATA 165,224,24,121, 87,67,133,224
BD 1500	DATA 210,141,2,210,1 04,168,104,170	OH 1920	DATA 208,169,0,141,2 02,6,169,30	HI 2340	DATA 165,225,105,0,1 33,225,238,216
CK 1510	DATA 104,76,98,228,7 2,138,72,152	CF 1930	DATA 141,166,232,69, 227,70,6,162	HK 2350	DATA 6,173,216,6,201 3,208,20
BB 1520	DATA 72,169,1,141,10 212,172,164	LN 1940	DATA 7,173,212,6,205 166,6,208	LI 2360	DATA 169,0,141,216,6 238,214,6
LN 1530	DATA 6,185,184,6,141 2,208,238	LL 1950	DATA 5,169,1,141,202 6,173,166	LI 2370	DATA 173,214,6,201,4 208,5,169
LI 1540	DATA 164,6,173,164,6 201,7,144	LD 1960	DATA 6,24,105,24,141 166,6,202	KH 2380	DATA 0,141,214,6,173 203,6,201
LJ 1550	DATA 5,169,0,141,164 6,104,168	BH 1970	DATA 208,231,169,1,1 41,203,6,141	LC 2390	DATA 1,208,27,173,16 6,6,201,10
EJ 1560	DATA 104,170,104,64, 169,1,141,192	KJ 1980	DATA 211,6,173,202,6 201,1,240	NM 2400	DATA 240,14,173,166, 6,201,6,240
LO 1570	DATA 6,169,5,141,191 6,141,218	PF 1990	DATA 3,76,160,70,169 30,141,166	IC 2410	DATA 7,173,166,6,201 14,208,6
PI 1580	DATA 6,169,160,141,1 93,6,169,60	KN 2000	DATA 6,162,4,173,212 6,205,166	BK 2420	DATA 206,212,6,76,13 9,71,173,211
LB 1590	DATA 141,198,2,169,0 141,200,2	KN 2010	DATA 6,240,15,173,16 6,6,24,105	II 2430	DATA 6,201,1,208,87, 173,166,6
BE 1600	DATA 160,0,162,20,18 5,217,65,145	BN 2020	DATA 48,141,166,6,20 2,208,236,76	OA 2440	DATA 201,9,240,14,17 3,166,6,201
HK 1610	DATA 222,200,236,68, 231,69,202,208	DJ 2030	DATA 117,70,169,0,14 1,168,6,173	IA 2450	DATA 5,240,7,173,166 6,201,13
EP 1620	DATA 247,173,31,208, 201,6,208,249	BS 2040	DATA 212,6,201,174,2 40,13,169,77	OO 2460	DATA 208,66,238,212, 6,169,0,141
NK 1630	DATA 160,0,162,20,16 9,0,145,222	LN 2050	DATA 141,166,6,169,3 141,169,6	BO 2470	DATA 214,6,141,216,6 169,127,133
HF 1640	DATA 200,202,208,248 160,0,173,192	BL 2060	DATA 32,135,67,173,1 68,6,141,211	FI 2480	DATA 224,169,66,133, 225,172,215,6
BN 1650	DATA 6,24,105,16,145 220,169,174	LI 2070	DATA 6,169,0,141,168 6,173,212	FB 2490	DATA 165,224,24,121, 91,67,133,224
BA 1660	DATA 141,212,6,169,2 00,141,213,6	NM 2080	DATA 6,201,30,240,13 169,53,141	HH 2500	DATA 165,225,105,0,1 33,225,238,217
KE 1670	DATA 141,0,208,141,1 208,160,0	JB 2090	DATA 166,6,169,4,141 169,6,32	HJ 2510	DATA 6,173,217,6,201 3,208,20
LC 1680	DATA 162,4,169,0,153 214,6,200	OI 2100	DATA 135,67,173,168, 6,141,203,6	LI 2520	DATA 169,0,141,217,6 238,215,6
CA 1690	DATA 202,208,247,160 0,162,7,169	LJ 2110	DATA 76,160,70,169,1 141,168,6	LH 2530	DATA 173,215,6,201,4 208,5,169
OK 1700	DATA 42,153,184,6,14 1,2,208,169	OO 2120	DATA 169,53,141,166, 6,169,4,141	EE 2540	DATA 0,141,215,6,162 0,160,7
KL 1710	DATA 0,153,194,6,153 204,6,200	MF 2130	DATA 169,6,32,135,67 173,168,6	OI 2550	DATA 189,194,6,201,0 240,31,254
BD 1720	DATA 202,208,236,160 0,162,7,173	OM 2140	DATA 141,211,6,169,7 7,141,166,6	CK 2560	DATA 184,6,189,184,6 201,209,144
NB 1730	DATA 10,210,41,15,24 105,40,153	MA 2150	DATA 169,3,141,169,6 32,135,67	CH 2570	DATA 21,169,224,71,2 19,72,42,157
KM 1740	DATA 204,6,200,202,2 40,9,169,1	BG 2160	DATA 173,168,6,141,2 03,6,173,120	NM 2580	DATA 184,6,169,0,157 194,6,173
GO 1750	DATA 153,204,6,200,2 02,208,232,160	KL 2170	DATA 2,141,166,6,173 202,6,201	KK 2590	DATA 10,210,41,63,24 105,1,157
LF 1760	DATA 0,173,191,6,24, 105,16,145	IL 2180	DATA 1,240,3,76,74,7 1,173,166	AN 2600	DATA 204,6,232,136,2 08,214,162,0
MD 1770	DATA 218,169,1,141,2 18,6,169,3	KN 2190	DATA 6,201,10,240,14 173,166,6	LF 2610	DATA 160,7,189,194,6 201,1,240
OE 1780	DATA 141,30,208,173, 15,208,41,3	NF 2200	DATA 201,11,240,7,17 3,166,6,201	OB 2620	DATA 15,222,204,6,18 9,204,6,201
HD 1790	DATA 201,0,240,50,16 9,0,141,0	FC 2210	DATA 9,208,30,169,23 5,133,224,169	FK 2630	DATA 0,208,5,169,1,1 57,194,6
BE 1800	DATA 208,141,1,208,1 41,213,6,169	BF 2220	DATA 66,133,225,173, 213,6,201,47	IA 2640	DATA 232,136,208,230 172,193,6,162
DE 1810	DATA 174,141,212,6,3 2,40,72,238	NJ 2230	DATA 240,12,206,213, 6,173,213,6	LN 2650	DATA 34,202,208,253, 136,208,248,169
LO 1820	DATA 192,6,173,193,6 56,233,20	KO 2240	DATA 141,0,208,141,1 208,76,19	JB 2660	DATA 0,133,77,76,113 69,162,6
PA 1830	DATA 141,193,6,173,1 98,2,105,62	OP 2250	DATA 71,173,228,70,2 23,71,166,6	BL 2670	DATA 160,0,169,166,1 41,3,210,185
OL 1840	DATA 141,198,2,173,2 00,2,233,78	NN 2260	DATA 201,6,240,14,17 3,166,6,201	OD 2680	DATA 114,67,141,2,21 0,169,0,133
IE 1850	DATA 141,200,2,76,2, 69,173,14	FD 2270	DATA 7,240,7,173,166 6,201,5	DF 2690	DATA 20,165,20,201,1 0,144,250,200
BG 1860	DATA 208,201,0,240,3 9,173,14,208	GO 2280	DATA 208,82,169,19,1 33,224,169,66	AH 2700	DATA 202,208,231,169 0,141,3,210
OF 1870	DATA 201,8,240,32,16 9,0,141,218	HG 2290	DATA 133,225,173,213 6,201,209,240	CD 2710	DATA 141,2,210,96,23 4,162,96,169
KI 1880	DATA 6,141,0,210,141 1,210,169	NM 2300	DATA 12,238,213,6,17 3,213,6,141	MA 2720	DATA 12,157,66,3,32, 86,228,162
LG 1890	DATA 1,141,221,6,206 191,6,173	KF 2310	DATA 0,208,141,1,208 169,0,141	AL 2730	DATA 96,169,119,157, 68,3,169,72
II 1900	DATA 191,6,201,0,208 3,76,198	LA 2320	DATA 215,6,141,217,6 172,214,6	BJ 2740	DATA 157,69,3,169,3, 157,66,3

ND 2750 DATA 169,28,157,74,3
 ,169,5,157
 KG 2760 DATA 75,3,76,86,228,
 83,58,155
 NK 2770 DATA 162,96,169,12,1
 57,66,3,32
 HH 2780 DATA 86,228,162,96,1
 69,119,157,68
 BO 2790 DATA 3,169,72,157,69
 ,3,169,3
 JC 2800 DATA 157,66,3,169,12
 ,157,74,3
 JF 2810 DATA 169,1,157,75,3,
 32,86,228
 GJ 2820 DATA 160,74,185,189,
 72,145,88,136
 BM 2830 DATA 16,248,173,31,2
 08,201,6,208
 FH 2840 DATA 249,173,31,208,
 201,7,208,249
 HD 2850 DATA 76,79,72,35,47,
 48,57,50
 BP 2860 DATA 41,39,40,52,0,1
 7,25,24
 DO 2870 DATA 23,0,0,0,0,0,0,
 163
 JB 2880 DATA 175,173,176,181
 ,180,165,129,0
 CI 2890 DATA 176,181,220,72,
 8,73,162,142
 OB 2900 DATA 140,0,169,174,1
 63,142,0,33
 BL 2910 DATA 44,44,0,50,41,3
 9,40,52
 BO 2920 DATA 51,0,50,37,51,3
 7,50,54
 KI 2930 DATA 37,36,14,0,0,0,
 0,112
 EC 2940 DATA 114,101,115,115
 ,0,115,116,97
 AL 2950 DATA 114,116,155

Program 2: Commodore 64 Climber 5

Please refer to the "MLX" article in this issue
 before entering the following program.

0801:0B 08 0A 00 9E 32 30 36 2E
 0809:31 00 00 00 4C FE 09 A2 C4
 0811:18 A9 00 9D 00 D4 CA 10 6A
 0819:FA A9 0F 8D 18 D4 A9 FF 33
 0821:8D 0F D4 A9 80 8D 12 D4 24
 0829:60 8D 11 C8 8A 48 98 48 6A
 0831:AE 11 C8 BC 1A 11 A9 00 2A
 0839:99 04 D4 BD 17 11 99 05 C2
 0841:D4 BD 1D 11 99 06 D4 BD 2C
 0849:20 11 D0 03 AD 1B D4 99 15
 0851:01 D4 BD 23 11 99 04 D4 CC
 0859:49 01 99 04 D4 68 A8 68 C3
 0861:AA 60 A9 00 85 FC AD 19 A8
 0869:C8 0A 0A 85 FB 0A 26 98
 0871:FC 0A 26 FC 18 65 FB 85 EA
 0879:FB A5 FC 69 00 85 FC A5 DC
 0881:FB 18 6D 18 C8 85 FB 85 9E
 0889:FD 85 3B A9 04 65 FC 85 31
 0891:FC 18 69 BC 85 3C 18 69 D5
 0899:18 85 FE AD 00 60 49 FF 15
 08A1:85 02 E6 02 A5 02 60 A2 8A
 08A9:00 20 DE 08 AD 55 C8 C9 3C
 08B1:27 90 29 AD 6E C8 8D 55 80
 08B9:C8 AD 66 C8 8D 44 C8 AD AF
 08C1:2C C8 20 9F 08 8D 2C C8 AF
 08C9:AD FB 07 C9 A0 90 07 38 F9
 08D1:E9 10 8D F8 07 60 18 69 6F
 08D9:10 8D F8 07 60 BD 55 C8 52
 08E1:9D 6E C8 BD 4C C8 9D 77 89
 08E9:C8 BD 44 C8 9D 66 C8 BD B8
 08F1:3C C8 9D 5E C8 BD 2C C8 4A
 08F9:18 7D 44 C8 9D 44 C8 BD D7
 0901:2C C8 30 0B BD 55 C8 69 50
 0909:00 9D 55 C8 4C 18 09 BD 4C
 0911:55 C8 E9 00 9D 55 C8 BD CE
 0919:34 C8 18 7D 3C C8 9D 3C CE
 0921:C8 BD 34 C8 30 0B BD 4C 8F
 0929:C8 69 00 9D 4C C8 4C 3A 2C

0931:09 BD 4C C8 E9 00 9D 4C 24
 0939:C8 60 8D 0E C8 8A 48 98 F3
 0941:48 A2 05 AD B4 07 18 6D FA
 0949:0E C8 8D B4 07 A9 00 8D FD
 0951:0F C8 BD AF 07 C9 3A 90 34
 0959:0D EE 0F C8 38 E9 0A C9 63
 0961:3A B0 F6 9D AF 07 CA BD 62
 0969:AF 07 18 6D 0F C8 9D AF 75
 0971:07 E0 FF D0 D8 68 A8 68 6E
 0979:AA 60 A2 07 A0 0E A9 00 4E
 0981:8D 10 C8 BD 4C C8 10 0C 05
 0989:BD 2E 11 2D 15 D0 8D 15 17
 0991:D0 4C F8 09 BD 26 11 0D 84
 0999:15 D0 8D 15 D0 BD 3C C8 2C
 09A1:8D 0E C8 BD 4C C8 0E 0E A2
 09A9:C8 2A 0E 0E C8 2A 0E 0E 66
 09B1:C8 2A 69 1E 99 01 D0 BD F1
 09B9:44 C8 8D 0E C8 BD 55 C8 63
 09C1:0E 0E C8 2A 0E 0E C8 2A 7E
 09C9:0E 0E C8 2A 8D 0F C8 2E 8A
 09D1:10 C8 AD 0F C8 18 69 15 53
 09D9:99 00 D0 AD 10 C8 69 00 24
 09E1:F0 0C BD 26 11 0D 10 D0 37
 09E9:8D 10 D0 4C F8 09 BD 2E 3B
 09F1:11 2D 10 D0 8D 10 D0 88 BD
 09F9:88 CA 10 82 60 A9 93 20 1E
 0A01:D2 FF A9 20 A0 11 20 1E 5F
 0A09:AB A9 FE 20 A0 11 A9 04 2B
 0A11:8D 25 D0 A9 06 8D 26 D0 6D
 0A19:A9 01 8D 27 D0 A9 04 8D 29
 0A21:01 C8 A9 00 8D 02 C8 8D B0
 0A29:21 D0 A9 00 8D 0C C8 8D F2
 0A31:0D C8 A9 01 8D 0A C8 20 89
 0A39:10 08 20 12 0E 20 BE 10 FA
 0A41:2D BC 0A 20 08 0B 20 90 15
 0A49:0C 20 7B 09 20 F8 10 AD 1E
 0A51:04 C8 F0 EC 10 4D A2 0E 8F
 0A59:A0 03 18 20 F0 FF A9 04 62
 0A61:8D 01 C8 A9 8A A0 11 20 49
 0A69:1E AB A9 FF 8D 16 C8 CE D1
 0A71:0A C8 20 BC 0A AD 08 C8 6C
 0A79:D0 29 CE 17 C8 D0 F3 CE CB
 0A81:16 C8 D0 EE A2 0E A0 03 6D
 0A89:18 20 F0 FF A9 AF A0 11 2E
 0A91:20 1E AB 20 BC 0A AD 08 26
 0A99:C8 F0 F8 A9 00 8D 0A C8 1B
 0AA1:8D 0C C8 AE 0A C8 E8 E0 A9
 0AA9:0E D0 07 A2 01 A9 01 8D 3E
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 0AB9:4C 41 0A A9 00 8D 2C C8 77
 0AC1:8D 34 C8 8D 08 C8 AD 00 5A
 0AC9:DC 8D 09 C8 4A B0 09 AE 33
 0AD1:3D 11 8E 34 C8 4C FD 0A 5B
 0AD9:4A B0 09 AE 3C 11 8E 34 C2
 0AE1:C8 4C FD 0A 4A B0 09 AE A3
 0AE9:3D 11 8E 2C C8 4C FD 0A F2
 0AF1:4A B0 09 AE 3C 11 8E 2C D2
 0AF9:C8 4C FD 0A AD 09 C8 29 32
 0B01:10 D0 03 EE 08 C8 60 A9 70
 0B09:00 8D 05 C8 20 6E D0 AD 32
 0B11:1C C8 F0 16 C9 01 D0 03 DD
 0B19:4C F5 0B C9 02 D0 03 4C 76
 0B21:3E 0C C9 03 D0 03 4C 9E 8C
 0B29:0B 60 AD 08 C8 8D 1C C8 90
 0B31:F0 03 4C C4 0B AD 34 C8 96
 0B39:F0 0D 20 AB 0D 00 03 4C C7
 0B41:2F 0C A9 00 8D 34 C8 20 16
 0B49:A8 08 20 E1 0D AD 2C C8 18
 0B51:F0 12 30 08 A9 92 8D 1A B7
 0B59:C8 4C 70 0B A9 2A 8D 1A B2
 0B61:C8 4C 70 0B A9 81 8D F8 15
 0B69:07 A9 00 8D 1B C8 60 EE F1
 0B71:1B C8 AD 1B C8 C9 04 90 B4
 0B79:05 A9 00 8D 1B C8 AD 1A C6
 0B81:C8 18 6D 1B C8 8D F8 07 D6
 0B89:A9 01 4C 2A 08 A9 85 8D 60
 0B91:F8 07 A9 03 8D 1C C8 A9 63
 0B99:0C 8D 07 C8 60 A9 85 8D C8
 0BA1:F8 07 CE 07 C8 D0 0F A9 91
 0BA9:00 8D 1C C8 A9 81 8D F8 9A
 0BB1:07 A9 02 4C 2A 08 AD 07 8E
 0BB9:C8 C9 03 B0 05 A9 81 8D 71
 0BC1:F8 07 60 A9 01 20 2A 08 A1
 0BC9:AD 2C C8 D0 03 4C 8E 0B 59
 0BD1:A9 01 8D 1C C8 A9 00 8D EA

0BD9:1B C8 A9 A6 8D 0E C8 AD 33
 0BE1:2C C8 30 05 A9 96 8D 0E 67
 0BE9:C8 A9 09 8D 06 C8 AD 0E 85
 0BF1:C8 8D 1A C8 A9 00 8D 34 C3
 0BF9:C8 AD 3E 11 8D 2C C8 AD 15
 0C01:F8 07 C9 A0 90 06 AD 3F D1
 0C09:11 8D 2C C8 20 A8 08 AD 80
 0C11:1B C8 CD 06 C8 D0 09 A9 48
 0C19:00 8D 1C C8 8D 1B C8 60 6F
 0C21:AD 1A C8 18 6D 1B C8 8D 28
 0C29:F8 07 EE 1B C8 60 A9 02 2C
 0C31:8D 1C C8 A9 82 8D F8 07 0E
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 0C41:D0 08 A9 83 8D F8 07 4C DB
 0C49:6D 0C AD 0D C8 49 01 8D 9C
 0C51:0D C8 F0 01 60 AD F8 07 03
 0C59:C9 84 D0 08 A9 82 8D F8 7D
 0C61:07 4C 6D 0C A9 02 20 2A 3E
 0C69:08 EE F8 07 A9 00 8D 2C 65
 0C71:C8 A2 00 20 DE 08 20 CC BC
 0C79:0D F0 09 20 DE 08 20 CC 9B
 0C81:0D F0 01 60 A9 00 8D 1C 07
 0C89:C8 A9 81 8D F8 07 60 AD CB
 0C91:05 C8 F0 01 60 20 6E 0D F9
 0C99:A2 07 20 A2 0C CA D0 FA 1B
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 0CE9:9D 2C C8 A9 B2 9D F8 07 94
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 0D19:4C C8 BD F8 07 C9 B2 90 28
 0D21:0C AD 1C D0 3D 2E 11 8D 8F
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 0D39:C8 F0 0D 30 12 BD 24 C8 51
 0D41:9D 27 D0 A9 AF 9D F8 07 95
 0D49:60 A9 B1 9D F8 07 60 A9 5C
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 0D59:0A 9D 24 C8 BD F8 07 49 1A
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 0D79:0F 20 0A 11 CE 01 C8 30 B1
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 0D89:A9 FF 8D 04 C8 60 20 85 F7
 0D91:10 20 7B 09 A9 01 8D 05 2D
 0D99:C8 A9 3C 20 0A 11 AD 1E 1A
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 0DA9:C8 60 AD 44 C8 30 1B AC 24
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 0DB9:10 03 CE 19 C8 AD 55 C8 78
 0DC1:8D 18 C8 20 63 08 B1 FB 5E
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 0DD9:66 0D F0 03 CA 10 F8 60 A1
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 0E09:FC 60 E6 FD D0 02 E6 FE D3
 0E11:60 A9 F8 85 FB A9 11 85 6D
 0E19:FC A0 00 A9 40 85 FD A9 34
 0E21:20 85 FE B1 FB F0 17 C9 45
 0E29:FE F0 45 C9 FD F0 3A C9 38
 0E31:FC F0 4A 91 FD 20 04 0E F0
 0E39:20 0B 0E 4C 24 0E 8D 0E 31
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 0E49:C8 AA AD 0E C8 91 FD C8 5C
 0E51:CA D0 FA A0 00 A5 FD 18 1B
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 0E61:00 85 FE 20 04 0E 4C 24 D5
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 0E71:A9 00 91 FD 20 0B 0E 20 DD
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0EA9:C8 D0 F0 A9 B0 8D 0E C8 B7
0EB1:A9 B1 8D 0F C8 20 C3 0E 0E
0EB9:A9 B2 8D 0E C8 A9 B3 8D CB
0EC1:0F C8 A9 00 85 FB 85 FD F1
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0ED1:FB 85 FC AD 0F C8 4A 66 5E
0ED9:FD 4A 66 FD 85 FE A0 3C D9
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0EF1:AC 11 C8 91 FD AC 10 C8 66
0EF9:C8 B1 FB 20 23 0F 91 FD DE
0F01:AC 11 C8 B1 FB 20 23 0F A3
0F09:AC 10 C8 91 FD CE 11 C8 C9
0F11:CE 11 C8 CE 11 C8 CE 10 3A
0F19:C8 CE 10 C8 CE 10 C8 10 36
0F21:C7 60 8D 16 C8 A2 00 8E AD
0F29:18 C8 8E 17 C8 A9 00 0E C3
0F31:16 C8 2A 0E 16 C8 2A 0E BB
0F39:00 F0 06 0A 0A CA 4C 38 41
0F41:0F 0D 17 C8 8D 17 C8 EE E2
0F49:18 C8 AE 18 C8 E0 04 D0 9F
0F51:DC AD 17 C8 60 A9 31 20 E4
0F59:D5 10 AD 21 D0 48 AD 86 B7
0F61:02 8D 21 D0 A9 93 20 D2 C3
0F69:FF 68 8D 21 D0 A9 00 8D 20
0F71:18 C8 A2 04 8E 19 C8 20 EC
0F79:63 08 A9 78 91 FB 91 3B E2
0F81:A9 0F 91 FD C8 C0 28 D0 B4
0F89:F1 AE 19 C8 E8 E8 E8 E0 99
0F91:17 90 E1 AE 0A C8 BD 03 78
0F99:18 C8 A8 8C 03 C8 B9 0A 10 FC
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0FD9:71 20 D2 FF A9 DA 8D A1 88
0FE1:C0 A2 17 A0 02 18 20 F0 97
0FE9:FF A9 D4 A0 11 20 1E AB 08
0FF1:A9 0E 38 ED 0A C8 0A 0A DF
0FF9:8D 0B C8 AD 0A C8 69 30 0C
1001:4C D2 FF 00 1F 3C 57 6C 01
1009:00 04 04 04 14 04 22 07 E6
1011:0A 07 1C 0A 04 0A 14 0A 96
1019:22 0D 0A 0D 1C 10 04 10 D8
1021:14 10 22 13 0A 13 1C 00 99
1029:04 04 04 22 07 0D 07 1C 85
1031:0A 07 0A 0F 0A 16 0D 0C 19
1039:0D 1A 10 0A 10 18 13 04 14
1041:13 13 13 22 00 04 14 07 73
1049:04 07 22 0A 04 0A 14 0A 8C
1051:22 0D 0E 0D 1D 10 05 10 9B
1059:14 13 03 13 14 13 23 00 0D
1061:04 14 07 04 07 22 0A 02 80
1069:0A 1C 0D 0F 0D 19 10 14 29
1071:13 03 13 24 00 04 25 07 E1
1079:01 0A 21 0D 05 10 1E 13 49
1081:02 13 25 0D A2 07 A9 00 90
1089:9D 1C C8 9D 44 C8 9D 3C 2F
1091:C8 A9 FF 9D 4C C8 CA 10 85
1099:ED AD 38 11 8D 55 C8 AD 35
10A1:39 11 8D 4C C8 A9 81 8D 96
10A9:F8 07 A2 00 A9 D3 9D A1 D5
10B1:07 E8 EC 01 C8 D0 F5 A9 5C
10B9:20 9D A1 07 60 20 56 0F 35
10C1:20 85 10 20 7B 09 A9 00 AA
10C9:8D 1C C8 8D 04 C8 AD 1E 66
10D1:0D 0F 60 0A 0A 8D E9 91
10D9:10 A9 00 8D E8 10 8A 48 2A
10E1:98 48 A0 04 A2 00 9D 00 05
10E9:C8 E8 D0 FA EE E9 10 88 3A
10F1:D0 F2 68 A8 68 AA 60 A2 20
10F9:00 A0 19 E8 D0 FD 88 D0 54
1101:FA AD 8D 02 C9 01 F0 F9 0C
1109:60 65 A2 8D 16 C8 A5 A2 A3
1111:CD 16 C8 D0 F9 60 36 00 83
1119:00 00 07 07 00 63 F0 D4 D0
1121:01 01 80 81 81 01 02 04 44
1129:08 10 20 40 80 FE FD FB 53
1131:F7 EF DF BF 7F 16 27 13 F8
1139:16 14 EC 40 C0 50 B0 11 C6
1141:20 43 4F 50 59 52 49 47 21
1149:48 54 20 31 39 38 37 20 F4
1151:43 4F 4D 50 55 54 45 21 3F
1159:20 50 55 42 4C 49 43 41 BD
1161:54 49 4F 4E 53 0D 20 20 FD
1169:41 4C 4C 20 52 49 47 48 59
1171:54 53 20 52 45 53 45 52 10
1179:56 45 44 00 AB B3 11 9D 8C
1181:9D AB B3 11 9D 9D AB B3 53
1189:00 9E 12 20 46 49 52 45 D8
1191:20 54 4F 20 43 4F 4E 54 0D
1199:49 4E 55 45 20 41 54 20 C1
11A1:54 48 49 53 20 4C 45 56 71
11A9:45 4C 20 92 9A 00 9E 12 D2
11B1:20 20 46 49 52 45 20 54 85
11B9:4F 20 52 45 53 54 41 52 EA
11C1:54 20 41 54 20 4C 45 56 96
11C9:45 4C 20 4F 4E 45 20 20 82
11D1:92 9A 00 4C 49 56 45 53 2A
11D9:20 20 20 20 20 20 20 20 FB
11E1:4C 45 56 45 4C 20 20 00 BE
11E9:FD 50 FD A0 FE 02 A8 FE 39
11F1:02 A8 FE 02 A8 FE 01 00 82
11F9:0D A0 FD 50 FD 50 FD A0 5D
1201:FE 02 A8 FE 02 A8 FE 02 DC
1209:AE FE 01 A4 FD F0 FD A0 FB
1211:FD A0 FD A0 FD A0 FD A0 35
1219:FD A0 FD F0 00 0F 04 FD 75
1221:08 FD A8 FD 58 FD 58 FE 28
1229:02 A8 FE 02 A8 FE 02 A0 1E
1231:FE 02 A0 FE 01 F0 FD A0 C1
1239:FD A0 FD A0 FD B0 FD 80 7D
1241:FD 80 FD C0 00 15 A0 FD E3
1249:50 FD 50 FE 02 A8 FE 02 C1
1251:A8 FE 01 A4 FD A0 FD 50 53
1259:FD A0 FD A0 FD A0 FD A0 7D
1261:FD A0 FD E0 FD 30 00 0E 39
1269:01 FD 02 FD 02 A0 FE 02 40
1271:50 FE 02 50 FE 02 A0 FD 02
1279:A8 FD A8 FD A8 FD F4 FD 8B
1281:A0 FD A0 FD A0 FD E0 FD 26
1289:20 FD 20 FD 30 00 18 A0 73
1291:FE 04 51 FE 08 52 FE 02 D9
1299:A8 FD A0 FD F0 FD A0 FD 44
12A1:A0 FE 02 08 FE 02 08 FD A4
12A9:CC 00 8D BD 00 3F 45 00 49
12B1:3F 55 00 3F 05 00 3F 44 A9
12B9:00 3F 4D 00 3F 55 00 3F E5
12C1:4F 00 3F 0C 00 3F 65 00 FD
12C9:4D A0 FD 50 FD 50 FD A0 4F
12D1:FE 02 A0 FE 02 A0 FE 02 8C
12D9:A0 FD 94 FD F0 FD A0 FD FE
12E1:A0 FD 88 FD 88 FE 02 08 13
12E9:FE 08 08 FE 0C 0C 00 12 23
12F1:A0 FD 50 FD 50 FD A0 FD 89
12F9:A0 FE 02 A0 FE 02 A0 FE B8
1301:02 A0 FD E4 FD A0 FD 20 EC
1309:FD 28 FD 28 FD A0 FE 03 ED
1311:A0 FD C0 00 15 A0 FD 50 96
1319:FD 50 FD A0 FE 02 A0 FE 5C
1321:02 A0 FE 02 A4 FD 70 FD 6C
1329:A0 FD A0 FD 88 FD 88 FE 5F
1331:02 20 FE 0C 20 FD 30 00 5A
1339:12 A0 FD 50 FD 50 FD A0 23
1341:FD A0 FE 02 A0 FE 02 A0 34
1349:FE 02 A0 FD E4 FD A0 FD C1
1351:20 FD 28 FD 28 FD A0 FE 65
1359:03 A0 FD C0 00 12 A0 FD 7C
1361:50 FD 50 FD A0 FE 02 A0 BE
1369:FE 02 A0 FE 02 A0 FD 64 86
1371:FD F0 FD A0 FD A0 FD 88 93
1379:FD 88 FE 02 08 FE 08 08 15
1381:FE 0C 0C 00 16 A0 FE 01 DD
1389:40 FE 05 FD 28 FD A8 40 DA
1391:FE AA FE 03 A0 FE 02 C0 B7
1399:FE AA 80 FE 08 80 FE 20 22
13A1:80 FE C0 80 FE 02 FD 0C EF
13A9:00 25 02 80 EA EA 64 02 2F
13B1:EA 60 EA 02 00 03 A4 00 38
13B9:32 02 80 EA EA 64 EA EA E1
13C1:60 FE 02 00 03 A4 00 31 F3
13C9:30 FD 3A BA 60 02 BA 60 5B
13D1:FE 0A 90 00 2E 30 FD 38 72
13D9:FD 28 FD 0A FD 02 B0 FD C0
13E1:EA 60 FE 0A 60 FE 02 20 39
13E9:FD 84 FD 10 00 32 E0 FE 7A
13F1:0C 08 FE 02 28 FD AF FD B6
13F9:0E 60 FE 02 60 FE 02 84 C6
1401:FD 90 00 29 03 FD 28 FD 3D
1409:AC FD 3A FD 0A FD 1A FD A8
1411:94 FD A0 00 26 02 80 FE 50
1419:01 40 FE 01 44 FE 02 A2 86
1421:FE 02 8A FE 02 BA FE 02 85
1429:BA FD 73 C0 00 1C 02 80 9D
1431:FE 01 40 FE 01 40 FE 0A 22
1439:FD 0A FD 0B FD 0A FD 09 70
1441:80 FE 02 A0 FD A0 FE 02 26
1449:80 FE 02 FD 0C 00 85 24 21
1451:00 3F 25 00 3F 65 00 3F BC
1459:04 00 3F 04 00 3F 44 00 31
1461:3F 0C 00 3F 04 00 3F 04 C2
1469:00 3F 44 00 3F 54 00 3F 74
1471:24 00 3F A6 00 3F E6 FE C7
1479:28 FD AA FE 02 AA 80 0A 40
1481:AA A0 00 27 0A AA 00 02 D7
1489:AA 80 FE AA FD 28 FE FF 40
1491:FE 28 FD AA FE 02 AA 80 83
1499:0A AA A0 FE 10 40 FE 05 F9
14A1:FD 01 00 03 40 FE 01 FD 37
14A9:04 FD 10 FD 04 FD 01 FD 4D
14B1:04 FD 10 FD 44 FE 01 01 5E
14B9:FE 0A AA A0 02 AA 80 FE FD
14C1:AA FD 28 FE FF 00 3F FF 32
14C9:FE EB FE 03 A0 FD EC FD 51
14D1:2B FD EC FE 03 A0 FD EC 20
14D9:FD 2B FD EC FE 03 A0 FD 9D
14E1:EC FD 2B FD EC FE 03 A0 4F
14E9:FD EC FD 2B FD EC FE 03 63
14F1:A0 FD EC FD 2B FE 03 AC 6F
14F9:FD 02 FC 00 00 00 00 00 41

```

Program 3: Amiga Climber 5

For instructions on entering this program, please refer to "COMPUTE!'s Guide to Typing In Programs" elsewhere in this issue.

```

' Climber 5
' Copyright 1987
' Computel Publications, Inc.
' All Rights Reserved.
DEFINT a-z
men=5:SAY TRANSLATE$( "climer fiv
el")
DIM map(45,24),mdat(100),chk&(7)
,ex(4),ey(4),ty(4),old(2),mindex
(4):endmap=100
GOSUB DefinePlayFieLd
RESTORE mapdata:t=1:cm=14
WHILE t<>-14
READ t:mdat(c)=t:c=c+14
IF t=0 THEN mindex(cm)=c:cm=cm+1
WEND
mapdata:
DATA 1,6, 1,12, 1,18, 2,2, 2,9,
2,15, 3,6, 3,12, 3,18, 4,2, 4,9,
4,15, 04
DATA 1,3, 1,16, 2,5, 2,15, 3,9,
3,11, 4,7, 4,14, 0
DATA 1,9, 2,3, 2,13, 3,7, 3,17,
4,14, 04
DATA 1,7, 2,17, 3,3, 3,10, 4,15,
04
DATA 1,10, 2,4, 3,13, 4,9, -14
stand=0:cl= 867:rtl=313:rt2=420:
duck=103:baLL=654:gird=603:hook=
6854
c2=974:Lt1=1081:Lt2=1188:shortho
ok=13714
GOSUB makeshapes:4
NewBoard:4
GOSUB MakeMap:px=266:py=138:psn=
3134
PUT (px,py),shape(psn):cf=04
FOR i=0 TO 4:ex(i)=320:NEXT4
main:4

```



```

WHILE vnext=0
'keyboard input
kf=33:dx=0:dy=0:a=0
WHILE dx=0 AND dy=0 AND kf>0
a$=INKEY$:a=ASC(a$+" ")
IF a=29 THEN dy=8:GOTO keypresse
d
IF a=28 THEN dy=-8:GOTO keypresse
d
IF a=31 THEN dx=-8:GOTO keypresse
d
IF a=30 THEN dx=8
kf=kf-1
keypressed:
WEND
GOSUB pLayer
'hooks
FOR n = 0 TO 4
IF ex(n)<318 THEN onscreen
PUT(ex(n),ey(n)),shape(hook),XOR
t1=RND(1):IF t1>.3 THEN eskip
IF t1>.2 THEN esn(n)=hook ELSE
esn(n)=shorthook
ex(n)=0:ty(n)=n*4+1:ey(n)=n*32+9
PUT(ex(n),ey(n)),shape(esn(n)),
XOR
onscreen:
th=esn(n)
PUT(ex(n),ey(n)),shape(th),XOR
ex(n)=ex(n)+16
PUT(ex(n),ey(n)),shape(th),XOR
tx=ex(n)/8:ty=ty(n)
IF th=hook AND (map(tx-1,ty+1)=
2 OR map(tx,ty+1)=2 OR map(tx-2,
ty+1)=2) THEN GOSUB killed
IF map(tx-1,ty)=2 OR map(tx,ty)=
2 OR map(tx-2,ty)=2 THEN GOSUB k
illed
eskip:
NEXT
WEND
t$="I got the ball":IF building>
0 THEN t$=t$+" again."
IF building=4 THEN t$="I am gett
ing tired."
IF vnext=2 THEN SAY TRANSLATE$(t
$)
vnext=0
IF men>0 THEN NextMap
SAY TRANSLATE$("game over.")
LOCATE 1,1:PRINT " (C)ontinue ":
PRINT " (R)estart ":PRINT " (
Q)uit "
men=5
Loopg: a$=INKEY$:IF a$="r" THEN
building=0:GOTO NewBoard
IF a$="c" THEN GOTO NewBoard
IF a$="q" THEN CLS:CLEAR:STOP
GOTO Loopg
NextMap:
building=(building+1) MOD 5
GOTO NewBoard
killed:
SAY TRANSLATE$("ouch.")
PUT(px,py),shape(psn),XOR
FOR i=0 TO 2:map(mx,my+1-2)=old
(i):old(i)=0:NEXT
PUT(ex(4),ey(4)),shape(esn(4)),
XOR
px=266:py=138
ex(4)=318:psn=stand:cf=0
PUT(px,py),shape(psn):men=men-1
IF men<0 THEN vnext=1:men=0
LOCATE 23,8:PRINT " Climbers ";m
en;" Level ";building+1;
RETURN
pLayer:
WHILE INKEY$<>"":WEND
mx=px/8:my=(py+17)/8
map(mx,my-2)=old(0)
map(mx,my-1)=old(1)
map(mx,my)=old(2)

```

```

IF dy AND cf=0 THEN GOSUB trycli
mb
ON cf GOTO cLimbing,ducking
IF dx THEN moveLay
sf=sf+1:REM standing on girder
IF sf>2 THEN PUT(px,py),shape(p
sn),XOR:PUT(px,py),shape(stand)
:sf=1:psn=stand
GOTO oLdmap
tryLimb:
t=my:IF dy>0 THEN t=my+1
IF map(mx,t)=1 THEN cf=1:RETURN
IF dy>0 THEN PUT(px,py),shape(p
sn),XOR:PUT(px,py),shape(duck):
psn=duck:cf=2
RETURN
moveLay:
sf=0:pb=rtl:IF dx<0 THEN pb=Ltl
tx=px+dx:ty=py
IF tx<8 OR tx>300 THEN tx=px
IF tx=10 AND ty=10 THEN fr=1:pb=
duck:vnext=2
GOTO animate
ducking:
IF dx OR dy<0 THEN cf=0:psn=duck
:RETURN
GOSUB oLdmap
map(mx,my-2)=0
RETURN
cLimbing:
IF dy=0 THEN oLdmap
pb=cl:tx=px:ty=py+dy:tmy=(ty+17)
/8
IF (tmy AND 3)=3 THEN cf=0:pb=st
and:fr=1
GOTO animate
animate:
PUT(px,py),shape(psn),XOR
fr=1-fr:psn=pb+fr*107
PUT(tx,ty),shape(psn)
px=tx:py=ty:mx=px/8:my=(py+17)/8
oLdmap:
old(0)=map(mx,my-2):map(mx,my-2)
=2
old(1)=map(mx,my-1):map(mx,my-1)
=2
old(2)=map(mx,my):map(mx,my)=2
RETURN
MakeMap:
FOR i=0 TO 39:FOR j=0 TO 24
map(i,j)=0:NEXT
c = mindex(building):CLS:yc=0
FOR y=yc TO yc+180 STEP 32:FOR x
=0 TO 319 STEP 8
PUT(x,y),shape(gird):NEXT:NEXT
WHILE mdat(c)>0
y2=mdat(c):x2=mdat(c+1)*2:my=y2*
4
FOR j=my TO my+3:map(x2,j)=1:NEX
T
tx=x2*8:ty=y2*32-5
LINE(tx,ty)-(tx+16,ty+36),0,bf
LINE(tx,ty)-(tx+2,ty+36),8,bf
LINE(tx+14,ty)-(tx+16,ty+36),8,
bf
FOR j=ty+4 TO ty+28 STEP 8
LINE(tx+2,j)-(tx+14,j),8,b:NEXT
j
temp:
c=c+2
WEND
PUT(20,28),shape(baLL):map(0,0)
=-1
LOCATE 23,8:PRINT " Climbers ";m
en;" Level ";building+1;
RETURN
makeshapes:

```

```

i2=0:RESTORE makeshapes:CLS
LOCATE 10,2:PRINT "Copyright 198
7 Computel Publications"
LOCATE 12,10:PRINT "All rights r
eserved."
FOR i=0 TO 7:READ chk&(i):NEXT
'checksums
DATA 445496, 818859, 1393851
DATA 1902864, 2002109, 2100910
DATA 2406221, 2606260
DIM shape(1599)
'shape 0 man standing still
m=102:m2=58:GOSUB ReadCompres
sed
DATA 14, 22, 4, 40002, 256,
896, 1408, 3968
DATA 1792, 8160, 16368, 30664
,-4124, 32756, 15736, 8176
DATA 3040, 2400, 736, 2240,
2784, 3808, 7920, 15480
DATA 40002, 768, 3968, 1280,
3840, 768, 3840, 8160
DATA 16368, 30680, 14296, 683
2, 2080, 1024, 1664, 3072
DATA 1568, 1024, 40007, 1280
, 3840, 768, 1536, 0
DATA 2080, 4112, 0, 2720, 40
64, 1728, 1728, 3136
DATA 1632, 1088, 40037
'shape 1 cLimbing
m=102:m2=43:GOSUB ReadCompres
sed
DATA 14, 22, 4, 40007, 128,
448, 640, 1920
DATA 896, 8176, 16376, 16376
, 16376, 16376, 8176, 8176
DATA 7280, 7280, 31868, 40007
, 384, 1984, 640, 1920
DATA 128, 896, 8176, 5008, 4
368, 12312, 4112, 40013
DATA 640, 1920, 128, 896, 25
6, 0, 3104, 15288
DATA 6448, 2080, 2080, 40036
'shape 2 ducking
m=106:m2=56:GOSUB ReadCompres
sed
DATA 14, 23, 4, 40003, 8192
, 29440, 30592, 22400
DATA 29440, 27872, 24720, 136
40, 6728, 3832, 3432, 7664
DATA 7024, 5808, 4848, 6896,
7920, 7920, 7776, 3072
DATA 40004, 8960, 1920, 8192
, 8960, 13056, 16352, 8176
DATA 2032, 2032, 656, 528, 1
152, 2112, 3072, 1024
DATA 40008, 8192, 40002, 768
, 4864, 0, 2048, 1056
DATA 0, 640, 4080, 3296, 316
8, 3104, 3168, 3072
DATA 40038
'shape 3 run right
m=106:m2=63:GOSUB ReadCompres
sed
DATA 13, 23, 4, 0, 512, 332
8, 8064, 7424
DATA 8064, 3856, 5688, 14200
, 25584, -8288, 32704, 16128
DATA 7936, 8064, 6080, 9184,
19952, 23008, -27712, -2176
DATA 29568, 14816, 0, 1536,
3840, 8128, 1280, 1920
DATA 3584, 1552, 7728, 16224
, 28480, 14080, 6656, 3072
DATA 0, 2048, 7168, 12288, 8
192, 24576, 40007, 1280
DATA 1920, 3584, 1552, 16, 0
, 64, 0, 2048
DATA 3072, 768, 2944, 7616,
12384, 8384, 24960, 40038
'shape 4 running right second f
rame
m=182:m2=95:GOSUB ReadCompres
sed
DATA 25, 20, 4, 40002, 32,

```



```

0, 112, 0 4
DATA 254, 0, 232, 0, 252, 0
, 120, 0 4
DATA 240, 0, 944, 0, 1919, -
32768, 3519, -16384 4
DATA 4031, -32768, 2040, 0, 1
023, 0, 383, -16384 4
DATA 15871, -16384, 32739, -819
2, -64, -512, -6208, 32256 4
DATA 384, 28672, 40002, 48,
0, 120, 0, 254 4
DATA 0, 40, 0, 60, 0, 112,
0, 112 4
DATA 0, 224, 0, 688, 0, 175
9, -32768, 608 4
DATA 0, 768, 40003, 128, 400
19, 40, 0, 60 4
DATA 0, 112, 0, 48, 40004, -
32768, 513, -16384 4
DATA 0, -32768, 768, 0, 752,
0, 239, 0 4
DATA 227, -32768, 1216, -16384
, 1920, 16384, 384, 40063 4
'shape 5 girder4
m= 50 :m2= 25:GOSUB ReadCompress
ed4
DATA 8, 9, 4, 0, 1024, -1024
, 30720, 13056 4
DATA -30976, -12544, 4096, 400
02, 8192, 40005, -32256, 0 4
DATA -256, -256, 768, -30976, -
13312, 30720, 12288, -256 4
DATA -256, 400214
'shape 6 ball4
m= 30 :m2= 14:GOSUB ReadCompress
ed4
DATA 5, 4, 4, 30720, 18432,
22528, 30720, 12288 4
DATA 30720, 30720, 12288, 184
32, 40002, 18432, 40016 4
'shape 7 hook4
m= 182 :m2= 53:GOSUB ReadCompress
ed4
DATA 15, 20, 4, 4088, 2032,
992, 448, 448 4
DATA 448, 448, 448, 448, 992
, 480, 448, 4032 4
DATA 16352, 30720, -4096, -4096
, 28672, 14340, 4088, 4096 4
DATA 2496, 1152, 512, 40006,
512, 0, 4128, 16384 4
DATA -32768, 2048, 0, -30720,
17416, 4100, 4096, 2048 4
DATA 1024, 512, 40006, 512,
0, 4128, 16384, -32768 4
DATA 2048, 0, -30720, 17416,
4100, 40120 4
PUT (0,0),shape(206):PUT (30,0),
shape(rt1)4
PUT (60,0),shape(rt2):PUT (90,0),
shape(hook)4
GET (90,12)-(105,20),shape(short
hook)4
GET (0,0)-(14,23),shape(cl)4
x2=0:y2=0:y3=40:psn=c2:nx=14:ny=
23:GOSUB ReverseBob4
x2=30:psn=Lt1:nx=13:ny=23:GOSUB
ReverseBob4
x2=60:psn=Lt2:nx=25:ny=20:GOSUB
ReverseBob4
RETURN4
ReverseBob4
FOR i= 0 TO nx-14
FOR j=0 TO ny-14
t=POINT (i+x2,j+y2)4
PRESET (x2+nx-i,j+y3),t4
NEXT j4
NEXT i4
GET (x2,y3)-(x2+nx,y3+ny),shape(
psn)4
RETURN4
ReadCompressed: 4
FOR j=0 TO m2 4
READ t:s=s&t&t4
IF t<400000 THEN shape(i2)=t&t:i
2=i2+1 ELSE FOR i=0 TO t&-400000&

```

```

:shape(i+12)=0:NEXT:i2=i2+t&-400
00&4
NEXT4
IF chk&(ns)<>s& THEN PRINT "erro
r in checksum":ns:PRINT " or in
shape":ns:"data statements":STOP
4
ns=ns+14
RETURN4
4
DefinePlayFieLd:4
SCREEN 1,320,200,4,14
WINDOW 1,"Climber 5",2,14
RESTORE DefinePlayFieLd4
FOR i=0 TO 74
READ al,bl,cl4
PALETTE i,al,bl,cl4
PALETTE i+8,al,bl,cl4
NEXT :PALETTE 8,.25,.25,.254
DATA .45,.45,.6,.1,.1,.1,.
85,.85,.8,.8,.7,.74
DATA .85,.1,.1,.6,.45,.4,.
45,.4,.3,1,.6,.54
RETURN 4

```

Program 4: IBM PC/PCjr Climber 5

For instructions on entering this program,
please refer to "COMPUTE!'s Guide to Typing
In Programs" elsewhere in this issue.

```

DA 10 'COPYRIGHT 1987
NM 20 'COMPUTE! PUBLICATIONS, INC
.
AB 30 'ALL RIGHTS RESERVED.
BP 40 KEY OFF:DEF SEG=0:DEFINT A
-Z:POKE 1047,PEEK(1047) OR
64:RANDOMIZE TIMER
HG 50 SCREEN 1,0:COLOR 1,1:WIDTH
40
HA 60 CLS
EF 70 PRINT TAB(14)"Copyright 19
87"
GG 80 PRINT TAB(8)"Compute! Publ
ications, Inc."
AC 90 PRINT TAB(12)"All Rights R
eserved."
NK 100 FOR X=1 TO 2400:NEXT
GB 110 DIM LADR(37),RT1(15),LT1(
15),RT2(15),LT2(15),CL1(1
5),CL2(15),WPC(16),WPS(11
),BL(7)
DA 120 GOSUB 180:PL=5:LV=1
FK 130 POKE 1050,PEEK(1052):GOSU
B 350
KG 140 GOSUB 380
KB 150 IF CD THEN SOUND 37,5:GOS
UB 730:GOTO 690
CM 160 GOSUB 470:IF XC<BLX(LV)
OR LL<>6 THEN 140
MD 170 GOSUB 730:PUT (BLX(LV)+3,4
7),BL:LV=LV+1:IF LV=5 THE
N 710 ELSE PUT (BLX(LV)+3,
47),BL:LOCATE 24,23:PRINT
LV;:GOTO 130
BD 180 RESTORE 760:CLS
JK 190 READ LT1(0),LT1(1):FOR I=
2 TO 15:READ A$:LT1(I)=VA
L("&H"+A$):NEXT
NI 200 READ LT2(0),LT2(1):FOR I=
2 TO 15:READ A$:LT2(I)=VA
L("&H"+A$):NEXT
DB 210 READ RT1(0),RT1(1):FOR I=
2 TO 15:READ A$:RT1(I)=VA
L("&H"+A$):NEXT
IC 220 READ RT2(0),RT2(1):FOR I=
2 TO 15:READ A$:RT2(I)=VA
L("&H"+A$):NEXT
JO 230 READ CL1(0),CL1(1):FOR I=
2 TO 15:READ A$:CL1(I)=VA
L("&H"+A$):NEXT
OP 240 READ CL2(0),CL2(1):FOR I=
2 TO 15:READ A$:CL2(I)=VA
L("&H"+A$):NEXT
LA 250 READ LADR(0),LADR(1):FOR

```

```

I=2 TO 37:READ A$:LADR(I)
=VAL("&H"+A$):NEXT
NA 260 LOCATE 3,17:PRINT"CLIMBER
5":LOCATE 24,18:PRINT"LE
VEL 1";
DA 270 LINE(0,0)-(0,7),1:LINE(8,
0)-(8,7),1:GET(0,0)-(0,7)
,WPS:GET(0,0)-(8,7),WPC:P
UT(0,0),WPC
BJ 280 RESTORE 280:FOR I=1 TO 4:
READ BLX(I):NEXT:DATA 252
,188,124,60
DC 290 FOR I=0 TO 6:LINE(58,50+2
0*I)-(268,50+20*I),2:NEXT
BH 300 CIRCLE(256,48),1:PAINT(25
6,48):GET(255,47)-(257,49
),BL
ND 310 FOR I=0 TO 5:Y=47+20*I
BP 320 IF (I AND 1)=1 THEN FOR J
=0 TO 3:PUT (63+J*64,Y),LA
DR,OR:NEXT
LP 330 IF (I AND 1)=0 THEN FOR J
=0 TO 2:PUT (95+J*64,Y),LA
DR,OR:NEXT
BL 340 NEXT:RETURN
OH 350 PUT (256,157),LT1:XP=256:Y
P=157:XC=256:YC=157:DIR=1
:DIRP=1:DHP=1:FR=0:STAND=
1
ON 360 FOR I=0 TO 6:WPO(I)=0:WPX
(I)=0:WPY(I)=38+I*20:NEXT
NL 370 RETURN
BD 380 DX=0:DY=0
JA 390 K$=RIGHT$(INKEY$,1):A$=RI
GHT$(INKEY$,1):IF A$<>"
THEN K$=A$
GO 400 POKE 1050,PEEK(1052):GOTO
630
NE 410 IF K$=CHR$(72) THEN IF ((
XC+32*(INT((YC-21)/20) AN
D 1) MOD 64)=0 AND YC>37
THEN DIR=0:DY=-4:GOTO 46
0
CD 420 IF K$=CHR$(80) THEN IF ((
XC+32*(INT((YC-17)/20) AN
D 1) MOD 64)=0 AND YC<15
7 THEN DIR=0:DY=4:GOTO 46
0
KC 430 IF K$=CHR$(75) THEN IF (Y
C-37) MOD 20=0 AND XC>60
THEN DIR=1:DHP=1:DX=-4:GO
TO 460
KK 440 IF K$=CHR$(77) THEN IF (Y
C-37) MOD 20=0 AND XC<260
THEN DIR=2:DHP=2:DX=4:GO
TO 460
HP 450 IF DX=0 AND DY=0 THEN IF
STAND THEN 390 ELSE DIR=D
HP
FK 460 XC=XC+DX:YC=YC+DY:RETURN
DA 470 STAND=1:ON DIRP GOTO 500,
520
BP 480 IF FR AND 1 THEN PUT (XP,Y
P),CL2 ELSE PUT (XP,YP),CL
1
GF 490 GOTO 540
AB 500 IF FR AND 1 THEN PUT (XP,Y
P-1),LT2 ELSE PUT (XP,YP),
LT1
FG 510 GOTO 540
CB 520 IF FR AND 1 THEN PUT (XP,Y
P-1),RT2 ELSE PUT (XP,YP),
RT1
BK 530 GOTO 540
NA 540 FR=1-FR:ON DIR GOTO 580,6
00
EI 550 IF FR AND 1 THEN PUT (XC,Y
C),CL2 ELSE PUT (XC,YC),CL
1
NL 560 STAND=NOT((YC-37) MOD 20=
0)
FG 570 GOTO 620
JB 580 IF FR AND 1 THEN PUT (XC,Y
C-1),LT2:STAND=0 ELSE PUT
(XC,YC),LT1

```



```

BK 590 GOTO 620
NO 600 IF FR AND 1 THEN PUT(XC,Y
C-1),RT2:STAND=0 ELSE PUT
(XC,YC),RT1
FL 610 GOTO 620
IF 620 DIRP=DIR:XP=XC:YP=YC:RETU
RN
HD 630 LL=INT((YC-37)/20)+6:LH=L
L+2
BI 640 FOR J=LL TO LH:I=J MOD 7:
IF ABS(XC-WPX(I))-56<5 TH
EN IF ABS(YC-WPY(I)+2)<10
THEN CD=1
NE 650 IF WPO(I) THEN WPX(I)=(WP
X(I)+8) MOD 224:WPY=38+I#
20:PUT(WPX(I)+48,WPY(I)),
WPC:WPO(I)=WPX(I) ELSE IF
RND>.8 THEN PUT(WPX(I)+4
8,WPY(I)),WPC:WPO(I)=1
OO 660 NEXT
NM 670 IF CD THEN RETURN
EK 680 GOTO 410
FI 690 PL=PL-1:LOCATE 3,24:PRINT
PL
OK 700 IF PL>0 THEN 130
JN 710 LOCATE 5,12:PRINT"Another
game (Y/N)?"
OF 720 K%=INKEY$:IF K%="Y" THEN
120 ELSE IF K%="N" THEN C
LS:END ELSE 720
JE 730 FR=1-FR:GOSUB 540:FOR I=0
TO 6:PUT(WPX(I)+56,WPY(I
)),WPS:NEXT:CD=0
NJ 740 RETURN
BD 750 REM LT1
DJ 760 DATA 12,13,8002,802A,C00F
,2,800A,C03A
CC 770 DATA C00F,800A,4005,4004,
5014,1010,F0F0,0
CE 780 REM LT2
BJ 790 DATA 12,12,A,AA,3F,8,2A,C
0EB
DD 800 DATA C02A,C02B,15,51,7071
,3030,0,0
EC 810 REM RT1
BE 820 DATA 12,13,28,802A,3F,8,2
A,C03A
QJ 830 DATA 3F,2A,15,11,4051,404
0,F0F0,0
FD 840 REM RT2
FN 850 DATA 12,12,A,A00A,C00F,2,
800A,B03E
ND 860 DATA 803A,803E,4005,5004,
D0D4,C0C0,3C00,0
NH 870 REM CL1
OH 880 DATA 14,13,A,CF,82,A0AA,A
82B,880B
BG 890 DATA 8C0A,4005,4005,4004,
400C,4000,C000,0
HF 900 REM CL2
BH 910 DATA 14,13,8002,CC03,802,
AB2A,A0AB,808B
BK 920 DATA 80CA,4005,4005,4004,
C004,4,C,0
FB 930 REM LADDER
CF 940 DATA 18,23,C0,C0C0,C000,C
0,C0C0,C000
KD 950 DATA C0,FFC0,C0FF,C0,C0C0
,C000,C0,FFC0
NN 960 DATA C0FF,C0,C0C0,C000,C0
,FFC0,C0FF,C0
LP 970 DATA C0C0,C000,C0,FFC0,C0
FF,C0,C0C0,C000
FC 980 DATA C0,C0C0,C000,C0,C0,0

```

Program 5: Apple II Climber 5

Please refer to the "MLX" article in this issue
before entering the following program.

```

OC00: A9 91 20 ED FD AD B3 1A FB
OC08: F0 1B A9 00 85 EC A9 60 28
OC10: 85 ED 20 83 1A A9 63 85 66
OC18: FA A9 11 85 FB 20 37 16 77

```

```

OC20: A9 00 8D B3 1A 20 23 18 A6
OC28: 20 3B 18 A9 05 8D 86 1A 42
OC30: A9 00 8D B5 1A A9 20 85 64
OC38: E6 20 F2 F3 A9 40 85 E6 A9
OC40: 20 F2 F3 A9 00 8D 87 1A 9D
OC48: 8D 88 1A 8D 8A 1D 20 51 83
OC50: 18 AD 57 C0 AD 54 C0 AD C4
OC58: 53 C0 AD 50 C0 20 B1 18 07
OC60: A5 E6 85 1D 49 60 85 FF 5E
OC68: A0 00 84 1C 84 FE B1 1C C2
OC70: 91 FE 88 D0 F9 E6 1D E6 B8
OC78: FF A5 FF 29 1F D0 EF A9 52
OC80: 4B 85 EE A9 10 85 EF A9 38
OC88: 00 8D 97 1A 8D 98 1A 8D 2F
OC90: 99 1A A9 70 8D 95 1A 20 49
OC98: DE 15 A9 88 8D 96 1A 8D AB
OCA0: 4F 10 A2 04 8E B9 1A 20 AB
OCAB: D3 0F AE B9 1A A9 FF 9D F4
OCBB: AA 1A A9 00 9D A5 1A CA 5C
OCBB: 10 EA 20 19 18 8D BA 1A AF
OCC0: 20 E5 13 AD 96 1A C9 08 58
OCC8: D0 07 AD 95 1A C9 06 90 AE
OCD0: 54 A2 04 AD 96 1A DD 1B 0B
OCD8: 8D 90 2F DD 20 0D B0 2A 08
OCE0: 0D A5 1A F0 25 AD 95 1A B8
OCE8: 69 04 DD 9B 1A B0 1B 69 5F
OCF0: 03 DD 9B 1A 90 1A BD AA 12
OCF8: 1A 10 3F AD 98 1A C9 01 A6
OD00: F0 08 C9 06 F0 04 C9 08 64
OD08: D0 30 CA 10 C6 20 7E 0D B1
OD10: 20 08 0F AD 84 1A D0 4F 37
OD18: 4C C0 0C 00 11 31 51 71 6B
OD20: 1C 3C 5C 7C 9C EE 85 1A 70
OD28: AD 85 1A C9 05 D0 05 A9 79
OD30: 00 8D 85 1A 20 3B 18 4C 6A
OD38: 35 0C CE 86 1A F0 06 20 F2
OD40: 3B 18 4C 35 0C A9 5D A0 3D
OD48: 1A 20 93 18 20 73 18 2C 96
OD50: 10 C0 AD 00 C0 10 FB 2C 2C
OD58: 10 C0 29 DF C9 CE F0 07 40
OD60: C9 D9 D0 EE 4C 2B 0C 2C 32
OD68: 54 C0 2C 51 C0 A9 00 8D B1
OD70: 00 88 8D 01 08 8D 02 08 D0
OD78: 20 58 FC 4C D0 03 A9 4B 4E
OD80: 85 EE A9 10 85 EF AD 00 96
OD88: C0 30 03 4C 12 0E 2C 10 65
OD90: C0 C9 8D D0 0A AD 00 C0 04
OD98: 10 FB 8D 10 C0 30 73 C9 E3
ODA0: 83 D0 03 8D 84 1A 29 DF A8
ODA8: AE 97 1A E0 05 B0 63 E0 E3
ODB0: 03 90 1C F0 06 C9 C9 F0 DE
ODB8: 06 D0 57 C9 CD D0 53 38 22
ODC0: A9 08 ED 9A 1A 8D 9A 1A 6F
ODC8: A9 07 4D 97 1A D0 5E CA 38
ODD0: 10 06 A2 07 C9 80 F0 56 C1
ODD8: A2 06 C9 D5 F0 50 CA C9 84
ODE0: CF F0 4B A2 02 C9 CA F0 70
ODE8: 43 CA C9 CC F0 40 CA C9 46
ODF0: CB F0 3B C9 CD D0 09 20 15
ODF8: BC 0E 90 04 A2 04 D0 0B 19
OE00: C9 C9 D0 0E 20 BF 0E 90 1B
OE08: 09 A2 03 A9 08 8D 9A 1A 12
OE10: D0 1C CE 99 1A 10 31 AE 31
OE18: 97 1A EE 98 1A AD 98 1A C0
OE20: DD A4 0E B0 05 DD AC 0E 28
OE28: 80 0D BD B4 0E AA 8E 77 B2
OE30: 1A BD AC 0E BD 98 1A 20 62
OE38: 23 16 BD 9C 0E 8D 99 1A E0
OE40: BD 51 0E 48 BD 49 0E 48 4D
OE48: 60 47 58 5E 81 7E 5B 61 75
OE50: 47 0E 0E 0E 0E 0E 0E 0E
OE58: 0E A9 01 2C A9 03 2C A9 24
OE60: FF 2C A9 FD 8D 75 0E 18 13
OE68: 6D 95 1A C9 FB 08 0A C9 01
OE70: 83 90 06 38 F9 FF 20 93 D9
OE78: 0E 8D 95 1A 4C DE 15 A9 05
OE80: 04 2C A9 FC 18 6D 96 1A 6C
OE88: 8D 96 1A 8D 4F 10 CE 9A 20
OE90: 1A D0 B5 A2 00 8E 97 1A 52
OE98: 8E 99 1A 60 00 02 02 06 BD
OEAA: 06 06 06 0E 01 06 0B 04 1D
OEAB: 04 09 0E 02 00 04 09 02 0F
OEAB: 02 05 0A 01 00 01 02 03 6B
OEAB: 04 01 02 00 A9 0C 2C A9 D6
OEC0: EC 18 6D 96 1A 8D E3 0E 4D
OEC8: AD 4E 10 18 69 02 8D DC 1E

```

```

OED0: 0E AE 85 1A BD 65 19 AA 52
OED8: BD 6A 19 C9 00 D0 07 BD 3D
OEE0: 6B 19 C9 00 F0 09 1D 6A 82
OEE8: 19 F0 1E E8 E8 D0 E9 AD 2C
OEF0: 4D 10 C9 03 F0 14 AE 95 EB
OEF8: 1A E8 C9 01 F0 02 CA CA 95
OF00: 8E 95 1A 8A 20 DE 15 38 95
OF08: 60 18 60 A2 00 8E B9 1A 5A
OF10: BD A5 1A F0 2C 10 03 DE 4F
OF18: 9B 1A 18 7D A0 1A 9D A0 AE
OF20: 1A 90 03 FE 9B 1A BD 9B 1C
OF28: 1A C9 8C 90 0B A9 00 9D FC
OF30: A5 1A 20 D3 0F 4C 86 0F AE
OF38: 20 D0 10 20 07 0F 4C 86 C5
OF40: 0F CE BA 1A D0 40 20 19 73
OF48: 18 AC 85 1A D9 92 0F B0 D7
OF50: 03 B9 92 0F 8D BA 1A 20 4D
OF58: 19 18 D9 92 0F B0 03 B9 68
OF60: 92 0F 9D AF 1A 9D B4 1A 05
OF68: 20 19 18 09 40 10 02 29 DF
OF70: BF 9D A5 1A A9 00 9D A0 55
OF78: 1A BC A5 1A 10 02 A9 8C 91
OF80: 9D 9B 1A 20 E9 0F AE B9 3C
OF88: 1A E8 0E 05 F0 03 4C 0D 93
OF90: 0F 60 80 40 20 10 08 20 D3
OF98: 2B 10 AE B9 1A BD AA 1A FB
OFA0: C9 FF F0 1C FE AA 1A BD 18
OFA8: AA 1A C9 04 D0 1F A9 FF 72
OFB0: 9D AA 1A BD AF 1A 9D B4 3D
OFB8: 1A A0 05 A9 00 91 EE 06 CB
OFC0: DE B4 1A D0 FA A0 05 A9 D9
OFC8: 01 91 EE A9 00 9D AA 1A 2A
OFD0: 4C 23 16 20 25 10 20 E2 2F
OFD8: 0F 20 2B 10 20 E2 0F 20 B7
OFE0: 31 10 A0 05 A9 00 91 EE 5F
OFE8: 60 20 25 10 20 1C 10 20 96
OFF0: 06 10 20 2B 10 20 1C 10 16
OFF8: AE B9 1A A9 FF 9D AA 1A A0
1000: 20 31 10 20 1C 10 A0 05 E7
1008: A9 01 91 EE 60 20 25 10 3C
1010: 20 1C 10 20 2B 10 20 1C 41
1018: 10 20 31 10 AE B9 1A BD BD
1020: 9B 1A 4C DE 15 A9 73 A0 E2
1028: 10 D0 0A A9 81 A0 10 D0 DF
1030: 04 A9 95 A0 10 85 EE 84 72
1038: EF AE B9 1A BD 44 10 A2 96
1040: EE 4C BE 17 00 30 60 90 46
1048: C0 4B 10 73 10 00 00 08 5D
1050: 01 23 12 3D 1E 83 1E 23 2E
1058: 12 43 12 63 12 83 12 43 31
1060: 12 C3 12 E3 12 03 13 23 E0
1068: 13 43 13 63 13 83 13 A3 EB
1070: 13 C3 13 81 10 00 00 04 A0
1078: 00 63 11 D7 1A E3 1A 63 09
1080: 11 95 10 00 00 06 00 A3 4C
1088: 11 EF 1A 2E 1B A3 11 C3 A0
1090: 11 E3 11 03 12 A3 10 00 C3
1098: 00 04 00 83 11 6D 10 79 DF
10A0: 1B 83 11 B1 10 00 00 24 11
10A8: 00 63 11 85 1B 91 1B 63 D4
10B0: 11 C5 10 00 00 26 00 A3 09
10B8: 11 9D 1B DC 1B A3 11 C3 47
10C0: 11 E3 11 03 12 D3 10 00 B4
10C8: 00 24 00 83 11 1B 1C 27 7E
10D0: 1C 83 11 E1 10 00 00 44 E4
10D8: 00 63 11 33 1C 3F 1C 63 A0
10E0: 11 F5 10 00 00 46 00 A3 C5
10E8: 11 4B 1C 8A 1C 43 11 C3 E5
10F0: 11 E3 11 03 12 03 11 00 A3
10F8: 00 44 00 83 11 C9 1C D5 20
1100: 1C 83 11 11 11 00 00 64 31
1108: 00 63 11 E1 1C ED 1C 63 77
1110: 11 25 11 00 00 66 00 A3 63
1118: 11 F9 1C 38 1D A3 11 C3 A5
1120: 11 E3 11 03 12 33 11 00 95
1128: 00 64 00 83 11 77 1D 83 BF
1130: 1D 83 11 41 11 00 00 84 05
1138: 00 63 11 BF 1D 9B 1D 63 43
1140: 11 55 11 00 00 86 00 A3 20
1148: 11 A7 1D E6 1D A3 11 C3 4C
1150: 11 E3 11 03 12 00 00 00 D6
1158: 00 84 00 83 11 25 1E 31 5E
1160: 1E 83 11 03 02 00 00 00 D4
1168: 60 00 00 00 00 00 00 00 BA
1170: 00 00 00 00 00 00 00 00 68
1178: 00 00 00 00 00 00 00 00 9A

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1180:	00 00 00 03 02 00 15 00 0D	1430:	0B 20 9E 15 A2 1C 20 A3 74	16E0:	4A 66 E3 88 D0 F1 A8 A5 16
1188:	60 00 00 00 00 00 00 00 DA	1438:	17 4C 2B 1A A9 00 8D 87 95	16E8:	E3 2A 2A 2A 2A 29 07 C9 47
1190:	00 00 00 00 00 00 06 60 0B	1440:	1A 8D 88 1A 60 A0 06 B1 CE	16F0:	07 D0 03 A9 00 C8 E0 01 B5
1198:	00 00 00 00 00 00 00 00 BA	1448:	EE 85 FA C8 B1 EE 85 FB 85	16F8:	90 0F 69 03 C9 07 90 03 1D
11A0:	00 00 00 03 13 01 00 0C 9B	1450:	A0 03 B1 EE AA 88 B1 EE 78	1700:	E9 07 C8 AA 98 18 69 24 C4
11A8:	60 00 00 00 00 00 00 00 FA	1458:	A0 02 18 7E FA C9 07 90 09	1708:	60 AA 98 60 AD 90 1A 29 37
11B0:	00 00 00 00 00 45 60 00 AB	1460:	05 E9 07 E8 B0 F7 8D 8F 05	1710:	3F A8 B9 34 17 05 E6 B5 A2
11B8:	00 00 00 00 00 00 00 00 DA	1468:	1A 8A 8D 8E 1A A0 04 B1 E7	1718:	FF AD 90 1A 29 08 F0 02 B2
11C0:	00 00 00 03 13 01 00 7E 2E	1470:	EE 18 A0 03 71 FA 8D 90 7D	1720:	A9 80 18 2C 90 1A 70 04 DA
11C8:	60 00 00 00 00 00 00 00 1B	1478:	1A AD 8F 1A 0A 69 04 A8 53	1728:	10 04 69 28 69 28 6D 8E 64
11D0:	00 00 00 00 00 00 00 00 92	1480:	B1 FA 85 FC C8 B1 FA 85 49	1730:	1A 85 FE 60 00 04 08 0C DE
11D8:	00 00 00 00 00 00 00 00 FA	1488:	FD 98 69 0D AB B1 FA 85 5B	1738:	10 14 18 1C 00 04 08 0C 64
11E0:	00 00 00 03 13 01 00 F0 C0	1490:	1A C8 B1 FA 85 1B A0 00 87	1740:	10 14 18 1C 01 05 09 0D 7B
11E8:	60 00 00 00 00 00 00 00 3B	1498:	B1 FA 8D 91 1A AD 8E 1A E1	1748:	11 15 19 1D 01 05 09 0D 74
11F0:	00 00 00 00 00 29 61 00 7A	14A0:	49 FF C9 D8 90 0C 69 28 E3	1750:	11 15 19 1D 02 06 0A 0E 8B
11F8:	00 00 00 00 00 00 00 00 1B	14AB:	CD 91 1A 90 26 AD 91 1A 8D	1758:	12 16 1A 1E 02 06 0A 0E 84
1200:	00 00 00 03 13 01 00 62 53	14B0:	B0 21 69 01 48 A2 FC 20 9D	1760:	12 16 1A 1E 03 07 0B 0F 9B
1208:	61 00 00 00 00 00 00 00 DC	14B8:	BE 17 68 A2 1A 20 BE 17 23	1768:	13 17 1B 1F 03 07 0B 0F 94
1210:	00 00 00 00 00 00 9B 61 00 65	14C0:	AD 8E 1A A2 00 8E 8E 1A 42	1770:	13 17 1B 1F 18 A5 FF 69 04
1218:	00 00 00 00 00 00 00 00 3C	14C8:	18 6D 91 1A F0 04 C9 28 7F	1778:	04 85 FF 2C A2 17 F0 01 21
1220:	00 00 00 03 12 0A 01 D4 04	14D0:	90 01 60 8D 92 1A AD 90 4F	1780:	60 E9 1F 85 FF A5 FE 69 93
1228:	61 00 00 00 00 00 00 00 FC	14D8:	1A 49 FF C9 40 90 0C 69 C2	1788:	7F 85 FE B0 01 60 E6 FF 1A
1230:	00 00 00 00 00 0A 62 00 41	14E0:	C0 A0 01 D1 FA 90 36 B1 07	1790:	A5 FF 29 03 F0 01 60 A5 D8
1238:	00 00 00 00 00 00 00 00 5C	14E8:	FA B0 32 69 01 AC 91 1A 8F	1798:	E6 85 FF A5 FE 69 27 85 67
1240:	00 00 00 03 10 0B 00 40 81	14F0:	20 F7 17 48 18 65 FC 85 64	17A0:	FE 60 1C B5 00 8D B3 17 F9
1248:	62 00 00 00 00 00 00 00 9D	14F8:	FC 98 65 FD 85 FD 68 18 5F	17AB:	B5 01 8D B4 17 8E B6 17 66
1250:	00 00 00 00 00 70 62 00 FA	1500:	65 1A 85 1A 98 65 18 B5 CB	17B0:	A2 01 BD FF FF 95 FF CA 49
1258:	00 00 00 00 00 00 00 00 7C	1508:	1B AD 90 1A A2 00 8E 90 A1	17B8:	10 F8 AE B6 17 60 18 75 4E
1260:	00 00 00 03 13 0B 00 A0 1A	1510:	1A 18 A0 01 71 FA F0 04 CE	17C0:	00 95 00 90 02 F6 01 60 AB
1268:	62 00 00 00 00 00 00 00 BD	1518:	C9 A0 90 01 60 8D 93 1A EB	17C8:	18 B5 00 79 00 00 95 00 33
1270:	00 00 00 00 00 D9 62 00 C0	1520:	20 0C 17 A0 08 A5 E6 C9 B8	17D0:	B5 01 79 01 00 95 01 60 12
1278:	00 00 00 00 00 00 00 00 9C	1528:	20 F0 02 A0 0A B1 EE 85 63	17D8:	A9 00 38 F5 00 95 00 A9 42
1280:	00 00 00 03 13 0B 00 12 AB	1530:	1C C8 B1 EE 85 1D A0 00 A1	17E0:	00 F5 01 95 01 60 A2 00 D4
1288:	63 00 00 00 00 00 00 00 5E	1538:	AD 89 1A 91 1C C8 AD 8A E1	17E8:	A5 E6 C9 20 F0 01 E8 BC FB
1290:	00 00 00 00 00 00 4B 63 00 AB	1540:	1A 91 1C A5 1C 8D 89 1A FD	17F0:	54 C0 49 60 85 E6 60 A2 D3
1298:	00 00 00 00 00 00 00 00 BC	1548:	A5 1D 8D 8A 1A C8 A5 FE 25	17F8:	08 85 EB 84 F9 A9 00 85 4E
12A0:	00 00 00 04 10 09 03 84 34	1550:	91 1C C8 A5 FF 91 1C C8 05	1800:	E3 CA 30 12 0A 26 E3 06 B2
12AB:	63 00 00 00 00 00 00 00 7E	1558:	AD 92 1A 91 1C C8 AD 93 4D	1808:	EB 90 F6 18 65 F9 90 F1 D8
12B0:	00 00 00 00 00 C4 63 00 AE	1560:	1A 91 1C A9 06 A2 1C 20 2D	1810:	E6 E3 D0 ED A9 00 A4 E3 20
12B8:	00 00 00 00 00 00 00 00 DC	1568:	BE 17 AC 92 1A 88 B1 FE CB	1818:	60 A5 4E 0A 38 65 4E 96
12C0:	00 00 00 03 10 0B 03 04 CB	1570:	91 1C 31 1A 51 FE 51 FC 58	1820:	85 4E 60 20 58 FC A9 02 C0
12C8:	64 00 00 00 00 00 00 00 1F	1578:	91 FE 88 10 F1 AD 91 1A C0	1828:	A0 1A 20 93 18 A9 0E A0 90
12D0:	00 00 00 00 00 34 64 00 8E	1580:	A2 FC 20 BE 17 AD 91 1A D7	1830:	1A 20 93 18 A9 2D A0 1A C6
12D8:	00 00 00 00 00 00 00 00 FC	1588:	A2 1A 20 BE 17 AD 92 1A 29	1838:	4C 93 18 A9 43 A0 1A 20 02
12E0:	00 00 00 04 0B 08 06 64 2E	1590:	A2 1C 20 BE 17 20 74 17 3C	1840:	93 18 20 73 18 2C 10 C0 CD
12E8:	64 00 00 00 00 00 00 00 3F	1598:	CE 93 1A D0 CD 60 A0 02 92	1848:	AD 00 C0 10 FB 2C 10 C0 D9
12F0:	00 00 00 00 00 90 64 00 20	15A0:	BF 1C 85 FE C8 B1 1C 85 16	1850:	60 20 58 FC A9 7C A0 1A 2E
12F8:	00 00 00 00 00 00 00 00 1D	15AB:	FF C8 B1 1C 8D 92 1A C8 B0	1858:	20 93 18 A9 73 A0 1A 20 8D
1300:	00 00 00 04 0C 0A 07 BC B9	15B0:	B1 1C 8D 93 1A 18 A5 1C 3E	1860:	93 18 AD 85 1A 18 69 B1 24
1308:	64 00 00 00 00 00 00 00 60	15B8:	69 06 85 FC A5 1D 69 00 0E	1868:	8D F7 06 AD 86 1A 69 B0 19
1310:	00 00 00 00 00 00 EC 64 00 B2	15C0:	85 FD AC 92 1A 88 B1 FC 3F	1870:	8D D7 06 A9 04 85 FF A9 98
1318:	00 00 00 00 00 00 00 00 3E	15C8:	91 FE 88 10 F9 AD 92 1A 53	1878:	08 85 1D A0 00 84 FE 84 50
1320:	00 00 00 04 0B 0B 08 1C 37	15D0:	A2 FC 20 BE 17 20 74 17 B4	1880:	1C B1 FE 91 1C 88 D0 F9 C2
1328:	65 00 00 00 00 00 00 00 01	15D8:	CE 93 1A D0 E5 60 8D EC 58	1888:	E6 FF E6 1D A5 FF 29 03 5D
1330:	00 00 00 00 00 48 65 00 42	15E0:	15 A9 00 85 E3 A2 04 4A 54	1890:	D0 EF 60 85 FC 84 FD A0 20
1338:	00 00 00 00 00 00 00 00 5E	15E8:	66 E3 18 69 00 6A 66 E3 33	1898:	00 B1 FC 85 25 22 FC 18
1340:	00 00 00 04 10 04 03 74 B1	15F0:	4A 66 E3 CA D0 F1 AA 55 4C	18A0:	C8 B1 FC 85 24 C8 B1 FC 3E
1348:	65 00 00 00 00 00 00 00 21	15F8:	E3 2A 2A 2A 2A 29 07 C9 55	18AB:	F0 06 20 ED FD C8 D0 F6 61
1350:	00 00 00 00 00 00 B4 65 00 14	1600:	07 D0 03 A9 00 E8 0E 28 6C	18B0:	60 A9 04 8D 8C 1A A9 00 F4
1358:	00 00 00 00 00 00 00 00 7E	1608:	90 10 69 05 C9 07 90 03 8C	18B8:	8D 8E 1A A9 1B 8D 90 1A 7B
1360:	00 00 00 03 10 04 03 F4 42	1610:	E9 07 E8 48 8A 18 69 B6 D2	18C0:	20 0C 17 A9 04 8D 94 1A 1B
1368:	65 00 00 00 00 00 00 00 41	1618:	AA 68 A0 02 91 EE 8A C8 0E	18C8:	A9 AA A0 27 91 FE 49 7F 99
1370:	00 00 00 00 00 24 66 00 F3	1620:	91 EE 60 0A 18 69 0C AB A4	18D0:	88 10 F9 20 74 17 CE 94 BC
1378:	00 00 00 00 00 00 00 00 9E	1628:	B1 EE 48 C8 B1 EE A0 07 10	18D8:	1A 10 ED 18 AD 90 1A 69 A6
1380:	00 00 00 04 0B 00 06 54 9F	1630:	91 EE 68 88 91 EE 60 A0 20	18E0:	20 8D 90 1A CE 8C 1A 10 25
1388:	66 00 00 00 00 00 00 00 E1	1638:	00 B1 FA 8D 92 1A C8 B1 49	18E8:	D7 AE 85 1A BD 65 19 8D 46
1390:	00 00 00 00 00 00 80 66 00 85	1640:	FA 8D 93 1A 2D 92 1A C9 13	18F0:	8B 1A AE 8B 1A BD 6A 19 B1
1398:	00 00 00 00 00 00 00 00 BE	1648:	FF F0 24 A9 04 18 65 FA 16	18F8:	8D 8E 1A EB BD 6A 19 8D BC
13A0:	00 00 00 04 0C 07 07 AC 3E	1650:	85 CE A9 00 65 FB 85 CF 1E	1900:	90 1A EB 8E 8B 1A 0D 8E 74
13AB:	66 00 00 00 00 00 00 00 02	1658:	20 70 16 A9 0E A2 CE 20 C6	1908:	1A F0 2A 20 0C 17 A9 23 FD
13B0:	00 00 00 00 00 DC 66 00 17	1660:	BE 17 20 70 16 A9 20 A2 F6	1910:	8D 94 1A A9 BA 85 FC A9 9B
13B8:	00 00 00 00 00 00 00 00 DE	1668:	FA 20 BE 17 4C 37 16 60 2F	1918:	19 85 FD A0 01 B1 FC 91 5C
13C0:	00 00 00 04 0B 06 08 0C B3	1670:	A9 00 8D 8F 1A AD 8F 1A DC	1920:	FE 88 10 F9 A9 02 A2 FC 2D
13C8:	67 00 00 00 00 00 00 00 A2	1678:	0A AB B1 CE 85 FC C8 B1 5A	1928:	20 BE 17 20 74 17 CE 94 31
13D0:	00 00 00 00 00 38 67 00 A6	1680:	CE 85 FD C8 A5 EC 91 CE 94	1930:	1A D0 E8 F0 BD A9 00 85 E9
13D8:	00 00 00 00 00 00 00 00 FE	1688:	C8 A5 ED 91 CE AD 93 1A C7	1938:	FC A9 1A 85 FD A9 03 8D 19
13E0:	00 00 00 FF FF A9 00 8D 3B	1690:	8D 94 1A A0 00 A2 00 8A 0B	1940:	8E 1A A9 19 8D 90 1A 20 0A
13E8:	89 1A AD 8A 1A AD 49 10 DE	1698:	0A B1 FC 2A AA 90 03 09 1F	1948:	0C 17 A9 02 8D 94 1A A0 2F
13F0:	85 EE AD 4A 10 85 EF A5 0C	16A0:	80 2C 29 7F 91 EC C8 C0 D3	1950:	00 B1 FC 91 FE 20 74 17 20
13F8:	EE 05 EF F0 11 A0 05 B1 AB	16AB:	92 1A D0 EB AD 92 1A AD 0C	1958:	A9 01 A2 FC 20 BE 17 CE BC
1400:	EE F0 03 20 45 14 A2 EE EC	16B0:	FC 20 BE 17 AD 92 1A A2 3B	1960:	94 1A D0 EB 60 00 10 20 7F
1408:	20 A3 17 4C F7 13 20 E6 04	16B8:	EC 20 BE 17 CE 94 1A D0 7A	1968:	30 40 07 14 1B 14 05 34 8C
1410:	17 20 21 14 AD 89 1A 8D 86	16C0:	D2 AC 8F 1A C8 8C 8F 1A C6	1970:	21 34 0F 54 1D 54 17 74 44
1418:	87 1A AD 8A 1A 8D 88 1A 1B	16C8:	C0 06 D0 A9 60 8E D9 16 92	1978:	00 00 07 14 1F 14 0F 34 68
1420:	60 AD 87 1A 85 1C AD 88 F6	16D0:	AA A9 00 85 E3 A0 04 18 D6	1980:	15 34 09 54 25 54 1B 74 D5
1428:	1A 85 1D A5 1C 05 1D F0 DC	16D8:	69 00 6A 66 E3 4A 66 E3 66	1988:	00 00 07 14 1B 14 03 34 40

1990: 13 34 0B 54 25 54 1F 74 2D
 1998: 00 00 0F 14 23 14 07 34 99
 19A0: 1B 34 11 54 25 54 15 74 ED
 19AB: 00 00 11 14 25 14 19 34 1E
 19B0: 0B 54 21 54 03 74 13 74 6B
 19B8: 00 00 C4 80 FC 80 C4 80 7F
 19C0: C4 80 C4 80 FC 80 C4 80 0A
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 19D0: C4 D4 C4 80 FC 80 C4 80 2F
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 19E0: C4 80 C4 80 FC 80 C4 80 2A
 19E8: C4 80 C4 80 FC 80 C4 80 32
 19F0: C4 80 C4 80 FC 80 C4 80 3A
 19F8: C4 80 C4 80 FC 80 C4 80 42
 1A00: 83 83 06 0F C3 CC C9 CD 3B
 1A08: C2 C5 D2 A0 B5 00 08 06 37
 1A10: C3 CF D0 D9 D2 C9 C7 C8 E7
 1A18: D4 A0 B1 B9 B8 B7 AC A0 4F
 1A20: C3 CF CD D0 D5 D4 C5 A1 20
 1A28: AF C1 C2 C3 00 09 0A C1 33
 1A30: CC CC A0 D2 C9 C7 C8 D4 13
 1A38: D3 A0 D2 C5 D3 C5 D2 D6 67
 1A40: C5 C4 00 17 08 D0 D2 C5 E8
 1A48: D3 D3 A0 C1 A0 CB C5 D9 25
 1A50: A0 D4 CF A0 C3 CF CE D4 DD
 1A58: C9 CE D5 C5 00 17 0A D0 7D
 1A60: CC C1 D9 A0 C1 C7 C1 C9 2B
 1A68: CE A0 A8 D9 A0 CF D2 A0 69
 1A70: CE A9 00 15 20 CC C5 D6 5E
 1A78: C5 CC BA 00 15 00 CD C5 24
 1A80: CE BA 00 A5 EC 18 69 64 24
 1A88: 85 EE A5 ED 69 07 85 EF 31
 1A90: A9 00 85 FD A9 01 20 BD 79
 1A98: 1A 90 06 20 BD 1A 2A D0 3C
 1AA0: F5 AA CA A0 00 BD D5 1A 9A
 1AA8: 91 EC E6 EC D0 02 E6 ED D6
 1AB0: A5 EC C5 EE D0 DE A5 ED D5
 1AB8: C5 EF D0 D8 60 C6 FD 10 9D
 1AC0: 11 A2 07 86 FD AE 17 1B 63
 1AC8: 86 FC EE C6 1A D0 03 EE D2
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 1AD8: FC 83 FF F0 FE F8 87 9F 06
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 1AE8: BE 88 82 88 86 8E 8C 9E A9
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 1B18: 95 33 96 72 CF C9 F9 3B B4
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 1B38: 3C 94 A4 E2 51 3C 94 48 19
 1B40: C9 71 2F 25 13 D6 74 B3 80
 1B48: D6 79 28 95 C4 A2 79 3F 89
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 1B80: 89 E4 FC 9D 92 AC 97 C4 69
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 1BA8: 9E B2 89 79 2E 25 E4 AE 22
 1BB0: 25 E4 B8 97 92 89 E4 67 2F
 1BB8: EC EC 97 E4 EC 9F 93 B2 A1
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 1BC8: B2 55 92 F8 95 64 EC 9F 47
 1BD0: 93 F2 74 B3 D6 51 28 89 33
 1BD8: 44 F2 51 2F 25 C4 BC 94 55
 1BE0: 4F 25 12 F2 5C 4B C9 44 61
 1BE8: F2 79 3F 67 6C F6 56 A4 8B
 1BF0: FC 92 A4 59 52 E2 A5 C5 58
 1BF8: 76 EA 2B B7 51 5F 2E E2 4D
 1C00: B6 55 4C AA 99 55 32 AA 4E
 1C08: 65 FB 3D 65 2C AD 65 6C 3F
 1C10: AC 92 A4 97 1C FB E7 C7 62
 1C18: 3E 39 F1 CF 8A 59 4B 29 72
 1C20: 65 2C A5 94 B3 EB 9F 44 D8
 1C28: F2 79 3A 9D 45 2C AD 95 25
 1C30: B2 B6 56 CA 59 4B 3B 96 EB
 1C38: 77 2C EE 59 55 AF 8A D9 03

1C40: 5B 2B 65 6C F9 F1 4B 8A 1D
 1C48: 59 4B 29 65 2C A9 71 52 B8
 1C50: E2 BA 5C 57 4B 8A E9 71 73
 1C58: D6 B8 FA 1F 43 C7 8E A2 74
 1C60: 50 AD 95 B2 B1 76 4A 14 1A
 1C68: 3E C7 D8 FB 1F D8 AA 15 53
 1C70: 43 A1 5B 2B 65 6C AD 9F AB
 1C78: 12 A6 52 CA 59 4C A2 54 EF
 1C80: CA 99 53 2A 65 4C A9 9E DF
 1C88: CF 65 53 2A F2 55 E4 AE 74
 1C90: 25 71 3A 65 0B A2 5D 13 06
 1C98: FC 97 64 A1 43 EC 7D 8F 34
 1CA0: B1 F5 0E E2 77 12 AB 25 9F
 1CA8: D1 2E 89 74 4B A2 55 2C 89
 1CB0: A9 9C AE 25 44 A2 54 CA 21
 1CB8: 99 53 2A 65 4C A9 9D E4 57
 1CC0: EF 27 59 27 64 9D B2 5D B4
 1CC8: 92 56 27 5C AE 9F 13 A7 49
 1CD0: C4 57 91 64 E9 92 A9 64 0B
 1CD8: F5 92 B5 93 EE 64 EF C9 53
 1CE0: 2A B2 49 44 94 B2 51 25 7F
 1CE8: 32 71 2A 97 92 A9 79 3A BD
 1CF0: 71 3A 5C 4A A5 93 D7 12 DD
 1CF8: B5 CA A5 CA A9 64 E6 AE 39
 1D00: B2 49 56 4F E2 75 93 BC 76
 1D08: 7C 74 B2 A9 65 52 E2 A9 72
 1D10: 95 FA CA C5 0F FB 75 64 35
 1D18: BF 89 57 12 5E 4E 25 E4 FB
 1D20: AF 3A 5E 55 2E 3D 71 EF 1B
 1D28: BF 59 5A E2 99 53 39 95 1C
 1D30: 13 FC 97 64 92 AC 93 F8 D3
 1D38: 93 AC 93 AC 95 AE 3A 73 F3
 1D40: E2 9C EA 8A 9C 2E B5 CA E6
 1D48: AC 4B F2 49 2F 24 E2 4B B9
 1D50: C9 2F 25 3E 2A 9C BC A9 AA
 1D58: CE 39 CC E7 C4 A6 4A E2 98
 1D60: 4A E2 4A F9 64 BA D7 92 B1
 1D68: 50 95 89 EC 95 B2 54 C7 1B
 1D70: F4 1F F8 97 50 95 71 2E 6F
 1D78: 89 39 71 39 5E 49 53 25 6B
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 1D88: 3A 73 25 4C 97 64 FA 24 8E
 1D90: FA 5F 13 C4 F6 4F 5F 92 15
 1D98: ED D4 4A 59 2A 5D E4 BA 29
 1DA0: 5E 4A 9D 7B 29 F7 BA D9 20
 1DA8: 2B 5C 4A D9 2B 59 2B 5E E9
 1DB0: 4A 7C 4A 97 13 97 93 95 A5
 1DB8: E4 E7 2C A9 55 4C EC 93 C8
 1DC0: F8 92 EC 93 FC 92 AA 64 DE
 1DC8: AA 5C 4A A5 C4 AD 64 59 12
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 1DD8: D8 9D F3 27 42 89 38 92 13
 1DE0: 89 2A 24 A5 93 DF 13 DF 6B
 1DE8: 12 97 13 A5 C4 9F 13 A5 3F
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 1DF8: 2C 95 4C EC 9F C4 BB 27 B5
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 1E08: 59 54 EA 1F 0B C7 76 4B 05
 1E10: EC 9D C4 AA CA 27 12 89 0E
 1E18: 51 29 9E B3 D7 15 AE 2A F0
 1E20: 97 1E F8 E9 79 D2 BC E9 E7
 1E28: C4 AF 27 79 3A CE C9 3F 0F
 1E30: 89 2E C9 2E C9 3D F1 2B 2B
 1E38: 73 2B E7 2F 1C AF 27 AF 86
 1E40: F2 3E 24 BF 28 93 89 2B D0
 1E48: 92 89 2B 5E 4A 72 CE 72 A7
 1E50: BC E9 CE 25 6A AB 27 4B 2D
 1E58: C9 2B 89 E2 5D 33 DF 32 4D
 1E60: 84 FF 24 EF 24 BA 24 A9 60
 1E68: 93 AD 64 AE 5F 12 EA 12 7C
 1E70: AE 24 95 B2 72 CA DC B2 16
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 1E98: 54 CF 55 73 3E B7 33 B9 C5
 1EA0: 50 97 44 E9 5E 49 74 49 5C
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 1EB0: F7 2C AD CB 39 CB 2A 73 27
 1EB8: 00 00 00 00 00 00 00 00 F4

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