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10  MODE 1 : INK 0, 0 : INK 1, 20 : INK 2, 6 : INK 3, 25
20  PAPER 0 : CLS : BORDER 4
30  PEN 1 : LOCATE 15, 1 : PRINT "SPRITE_EDITOR"
40  LOCATE 1, 8 : INPUT "HOW_MANY_CHARACTERS_ACROSS_(1-4)
    " : X$
50  IF VAL( X$ ) > 4 OR VAL( X$ ) < 1 THEN 40
60  MCCOL = VAL( X$ )
70  LOCATE 1, 11 : INPUT "HOW_MANY_CHARACTERS_DOWN_(1-3)"
    : X$
80  IF VAL( X$ ) > 3 OR VAL( X$ ) < 1 THEN 70
90  MCROW = VAL( X$ )
100 LOCATE 1, 14 : INPUT "KEY_IN_NUMBERS( K ) OR BUILD
    *****NEW_SPRITE( N )" : X$
110 IF X$ = "N" OR X$ = "n" THEN 200
120 FOR I = 1 TO MCROW
130 FOR J = 1 TO MCCOL : FOR K = 1 TO 8
140 PRINT "CHARACTER_NO. " : MCCOL * ( I - 1 ) + J : " NUMBER
    " : K
150 INPUT X$ : IF VAL( X$ ) < 0 OR VAL( X$ ) > 255 THEN 140

160 GRID( I, J, K ) = VAL( X$ )
170 NEXT : NEXT : NEXT

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180 :
200 BORDER 0 : GC = 2 : GR = 2 : CLS
210 IF X$ = "N" OR X$ = "n" THEN 250 ELSE GOSUB 1000
220 FOR I = 1 TO MCROW : FOR J = 1 TO MCCOL
230 GOSUB 2000
240 NEXT : NEXT
250 PEN 2 : LOCATE 1, 1 : PRINT CHR$( 150 ) : FOR I = 2 TO
    GR + MCROW * 8 - 1 : LOCATE GC - 1, I : PRINT CHR$( 149
    ) : LOCATE GC + MCCOL * 8, I : PRINT CHR$( 149 ) : NEXT
260 FOR I = 2 TO GC + MCCOL * 8 - 1 : LOCATE I, GR - 1 : PR
    INT CHR$( 154 ) : NEXT
270 LOCATE GC + MCCOL * 8, 1 : PRINT CHR$(156)
280 FOR I = 36 TO 35 + MCCOL : LOCATE I, 1 : PRINT CHR$( 15
    4 ) : LOCATE I, MCROW + 2 : PRINT CHR$( 154 ) : NEXT
290 FOR I = 2 TO 1 + MCROW : LOCATE 35, I : PRINT CHR$( 149
    ) : LOCATE 36 + MCCOL, I : PRINT CHR$( 149 ) : NEXT
300 LOCATE 35, 1 : PRINT CHR$( 150 ) : LOCATE 36 + MCCOL, 1
    : PRINT CHR$( 156 )
310 LOCATE 35, 2 + MCROW : PRINT CHR$( 147 ) : LOCATE 36 +
    MCCOL, 2 + MCROW : PRINT CHR$( 153 )
320 IF MCROW = 3 THEN 340
330 FOR I = GC TO MCCOL * 8 + 1 : LOCATE I, GR + MCROW * 8
    : PRINT CHR$( 154 ) : NEXT : LOCATE 1, GR + MCROW * 8 :
    PRINT CHR$( 147 ) : LOCATE MCCOL * 8 + 2, GR + MCROW * 8
    : PRINT CHR$( 153 )

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340 :
350 COL = 2 : ROW = 2 : GOSUB 5000 : C = 0 : Q = 1 : CH = 1
43
360 X$ = INKEY$ : C = C + 1
370 IF C = 7 THEN C = 0 : Q = 1 - Q
380 IF Q <> 0 THEN 410
390 IF CH = 143 THEN CH = 0 : LOCATE COL, ROW : PEN 1 : PRI
NT CHR$( CU ) : Q = 1 : GOTO 410
400 LOCATE COL, ROW : PEN 1 : PRINT CHR$( 143 ) : Q = 1 : C
H = 143
410 IF X$ = "" THEN 360
420 IF INKEY( 2 ) > -1 THEN LOCATE COL, ROW : PRINT CHR$( C
U ) : IF ROW > GR - 2 + ( MCROW ) * 8 THEN 360 ELSE ROW
= ROW + 1 : GOSUB 5000 : GOTO 360
430 IF INKEY( 1 ) > -1 THEN LOCATE COL, ROW : PRINT CHR$( C
U ) : IF COL > GC - 2 + MCCOL * 8 THEN 360 ELSE COL = CO
L + 1 : GOSUB 5000 : GOTO 360
440 IF INKEY( 0 ) > -1 THEN LOCATE COL, ROW : PRINT CHR$( C
U ) : IF ROW < GR + 1 THEN 360 ELSE ROW = ROW - 1 : GOSU
B 5000 : GOTO 360
450 IF INKEY( 8 ) > -1 THEN LOCATE COL, ROW : PRINT CHR$( C
U ) : IF COL < GC + 1 THEN 360 ELSE COL = COL - 1 : GOSU
B 5000 : GOTO 360
460 IF INKEY( 18 ) > -1 THEN GOSUB 3000
470 IF INKEY( 62 ) > -1 THEN GOTO 4000
500 GOTO 360

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990 :
1000 PEN 1 : FOR I = 1 TO MCROW : FOR J = 1 TO MCCOL : FOR K
= 1 TO 8
1010 LOCATE GC + 8 * ( J - 1 ), GR + 8 * ( I - 1 ) + K - 1
1020 FOR L = 1 TO 8
1025 NUM = GRID( I, J, K )
1030 NM = NUM AND ( 2 ^ ( 8 - L ) )
1040 IF NM = 0 THEN PRINT " "; ELSE PRINT CHR$( 231 );
1050 NEXT : NEXT : NEXT : NEXT
1060 RETURN

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1990 :
2000 SYMBOL 240 + MCCOL * ( I - 1 ) + J, GRID( I, J, 1 ), GR
ID( I, J, 2 ), GRID( I, J, 3 ), GRID( I, J, 4 ), GRID( I
, J, 5 ), GRID( I, J, 6 ), GRID( I, J, 7 ), GRID( I, J,
8 )
2010 PEN 1 : LOCATE 35 + J, 1 + I : PRINT CHR$( 240 + MCCOL
* ( I - 1 ) + J )
2020 RETURN

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2990 :
3000 GOSUB 5000
3010 NUM = NUM AND ( 255 - POWER )
3020 NM = NM XOR POWER : NUM = NUM OR NM
3030 GRID( I, J, K ) = NUM
3040 GOSUB 5000
3050 GOSUB 2000
3060 RETURN

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3990 :
4000 PEN 3 : LOCATE 35, 6 : PRINT "CMD : "
4010 LOCATE 35, 8 : PRINT "E_=" : LOCATE 35, 9 : PRINT "ERAS
E"
4020 LOCATE 35, 12 : PRINT "D_=" : LOCATE 35, 13 : PRINT "GE
T" : LOCATE 35, 14 : PRINT "DATA"
4030 X$ = INKEY$ : IF X$ = "" THEN 4030
4040 IF X$ <> "E" AND X$ <> "e" THEN 4060
4050 FOR I = 1 TO MCROW : FOR J = 1 TO MCCOL : FOR K = 1 TO
8 : GRID( I, J, K ) = 0 : NEXT : NEXT : NEXT : FOR I = 3
5 TO 40 : FOR J = 6 TO 23 : LOCATE I, J : PRINT "_" : NE
XT : NEXT : GOSUB 1000 : GOTO 220
4060 IF X$ = "D" OR X$ = "d" THEN 4500
4070 FOR I = 35 TO 40 : FOR J = 6 TO 23 : LOCATE I, J : PRIN
T "_" : NEXT : NEXT
4100 GOTO 360

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4490 :
4500 CLS
4510 LOCATE 12, 1 : PRINT "DATA_PRINTOUT"
4520 LOCATE 1, 5 : PRINT "CHARACTERS ARE NUMBERED LEFT TO RI
GHT_" : LOCATE 1, 6 : PRINT "AND THEN TOP TO BOTTOM"
4530 LOCATE 1, 8 : PRINT "FOR EXAMPLE : _1_2_3" : LOCATE 1
5, 10 : PRINT "4_5_6"
4535 PRINT
4540 FOR I = 1 TO MCROW
4550 FOR J = 1 TO MCCOL : PRINT "CHARACTER_NO._" : MCCOL * (
I - 1 ) + J : "DATA :_"
4560 FOR K = 1 TO 8 : PRINT USING "###" : GRID( I, J, K ) :
PRINT "_," : NEXT : PRINT
4565 TP = ( MCCOL * ( I - 1 ) + J ) : IF TP = 4 OR TP = 11 T
HEN LOCATE 1, 25 : PRINT "PRESS SPACE TO CONTINUE" : X$
= INKEY$ : IF X$ <> "_" THEN 4565
4570 NEXT : NEXT
4580 LOCATE 1, 25 : PRINT CHR$( 10 ) : CHR$( 10 ) : LOCATE 1,
24 : PRINT "RETAIN THIS SHAPE (R)," : LOCATE 1, 25 : PR
INT "START FROM SCRATCH (S), OR QUIT (Q) ?";
4590 X$ = INKEY$ : IF X$ = "" THEN 4590
4600 IF X$ = "R" OR X$ = "r" THEN 200
4610 IF X$ = "S" OR X$ = "s" THEN RUN
4620 IF X$ = "Q" OR X$ = "q" THEN END ELSE 4580

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4990 :
5000 I = INT( ( ROW - GR ) / 8 ) + 1
5010 J = INT( ( COL - GC ) / 8 ) + 1
5020 K = ROW - ( GR + 8 * ( I - 1 ) ) + 1
5030 POWER = 2 ^ ( 7 - COL + GC + 8 * ( J - 1 ) ) : NUM = GR
      ID( I, J, K ) : NM = NUM AND POWER
5040 IF NM = 0 THEN CU = 32 ELSE CU = 231
5050 RETURN

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ChexSum Tables

10 =	1367	370 =	2365	4010 =	1770
20 =	552	380 =	1155	4020 =	2574
30 =	1785	390 =	4656	4030 =	2034
40 =	3017	400 =	3128	4040 =	2299
50 =	2558	410 =	1153	4050 =	10342
60 =	1330	420 =	8306	4060 =	2223
70 =	2883	430 =	8105	4070 =	3434
80 =	2587	440 =	7180	4100 =	327
90 =	1356	450 =	7095	4490 =	0
100 =	4018	460 =	1795	4500 =	138
110 =	2278	470 =	1820	4510 =	1548
120 =	1491	500 =	327	4520 =	5243
130 =	2449	990 =	0	4530 =	2661
140 =	4115	1000 =	4176	4535 =	223
150 =	3334	1010 =	3673	4540 =	1491
160 =	2072	1020 =	983	4550 =	5067
170 =	530	1025 =	1869	4560 =	3843
180 =	0	1030 =	2140	4565 =	8673
200 =	1400	1040 =	2484	4570 =	385
210 =	2968	1050 =	707	4580 =	6439
220 =	2958	1060 =	201	4590 =	2084
230 =	436	1990 =	0	4600 =	2286
240 =	353	2000 =	11279	4610 =	2292
250 =	8216	2010 =	4311	4620 =	2665
260 =	4450	2020 =	201	4990 =	0
270 =	2302	2990 =	0	5000 =	2338
280 =	5204	3000 =	376	5010 =	2298
290 =	5194	3010 =	2459	5020 =	2790
300 =	2875	3020 =	3300	5030 =	6981
310 =	4425	3030 =	1869	5040 =	2602
320 =	1396	3040 =	376	5050 =	201
330 =	10670	3050 =	436		
340 =	0	3060 =	201		
350 =	3267	3990 =	0		
360 =	1695	4000 =	1124	TOTAL =	272032