

```

10      GOSUB 550

20      :
30      MODE H : FOR I = 1 TO 33 STEP A(G)
40      FOR N = 1 TO 33 - A(G) STEP A(G)
50      PLOT X(N, I), Y(34 - I, N)
60      DRAW X(N + A(G), I), Y(34 - I, N + A(G)), I
70      PLOT X(I, 34 - N), Y(N, I)
80      DRAW X(I, 34 - (N + A(G))), Y((N + A(G)), I), I : NEXT :
      NEXT

90      :
100     IF INKEY$ = "~" THEN GOTO 110 ELSE 100
110     FOR I = 0 TO 26 : INK I, I : FOR N = 1 TO 50 : NEXT : N
      EXT
120     FOR I = 1 TO 26 : LOCATE I, 1 : PRINT CHR$(11) : NEXT
130     CLS : MODE 1
140     IF G = 6 THEN 1060
150     PRINT "▲FRAME▲NUMBER▲="▲" : G : PRINT
160     PRINT "▲1▲1▲J▲NEXT▲FRAME▲"
170     PRINT "▲1▲2▲J▲CHANGE▲CO-ORDINATE"
180     PRINT "▲1▲3▲J▲REDRAW▲THIS▲FRAME"
190     PRINT "▲1▲4▲J▲NEW▲FRAME"
200     PRINT "▲1▲5▲J▲QUIT"
210     PRINT "▲1▲6▲J▲CHANGE▲AMPLITUDE"
220     PRINT "▲1▲7▲J▲REDRAW▲WITH▲NEW▲AMPLITUDE"
230     IF G = 5 THEN PRINT : PRINT "▲LAST▲FRAME"
240     A$ = INKEY$
250     LOCATE 1,12 : PRINT "COMMAND▲?"
260     PEN RND(1) * 3 + 1
270     IF A$ = "" THEN 240
280     LOCATE 1,12 : PRINT SPACE$(10) : PEN 1
290     IF A$ = "1" THEN GOTO 440
300     IF A$ = "2" THEN GOTO 380
310     IF A$ = "3" THEN GOTO 30
320     IF A$ = "4" THEN RUN
330     IF A$ = "5" THEN 1060
340     IF A$ = "6" THEN LOCATE 2, 10 : : PRINT "▲CURRENT▲AMPLI
      TUDE▲="▲" : AMP : INPUT "▲AMPLITUDE" : AMP : LOCATE 2,10
      : PRINT SPACE$(30) : PRINT SPACE$(30) : LOCATE 1,1 : GOT
      O 150
350     IF A$ = "7" THEN REDRAW = 1 : GOTO 440
360     GOTO 240

```

```

370 :
380 INPUT "ENTER CO-ORDINATE "; D, E
390 PRINT "CO-ORDINATE"; D; ", "; E; "IS CURRENTLY"; X(D, E);
    ", "; Y(34 - E, D)
400 INPUT "ENTER NEW VALUES "; XNV, YNV
410 X(D, E) = XNV : Y(34 - E, D) = YNV
420 CLS : GOTO 150

```

```

430 :
440 LOCATE 1, 15 : PRINT "Please wait a bit."
450 FOR T = 1 TO 33 : BORDER RND(1) * 26
460 FOR N = 1 TO 33 - A(G) STEP A(G)
470 X(N + A(G) + 1, T) = (( X(N + A(G), T) - X(N, T) ) / 2)
    + X(N, T)
480 Y(N + A(G) + 1, T) = (( Y(N + A(G), T) - Y(N, T) ) / 2)
    + Y(N, T) : NEXT : NEXT
490 G = G + 1 : IF REDRAW THEN G = G - 1 : REDRAW = 0
500 FOR T = 1 TO 33 STEP A(G) : BORDER RND(1) * 26
510 FOR N = 1 TO 33 STEP A(G)
520 X(N, T) = X(N, T) + RND(1) * AMP - AMP / 2
530 Y(N, T) = Y(N, T) + (RND(1) * AMP) - AMP / 2 : NEXT : N
EXT : BORDER 5 : GOTO 30

```

```

540 :
550 DIM X(33, 33), Y(33, 33), A(6), B(4), C(4)
560 SPEED KEY 20,1
570 G = 1
580 A(1) = 32
590 A(2) = 16
600 A(3) = 8
610 A(4) = 4
620 A(5) = 2
630 A(6) = 1
640 CLS
650 PRINT "MODE (0/1/2) ?" :
660 A$ = INKEY$ : IF A$ = "" THEN GOTO 660
670 IF A$ = "0" THEN M = 0 : GOTO 710
680 IF A$ = "1" THEN M = 1 : GOTO 710
690 IF A$ = "2" THEN M = 2 : GOTO 710
700 GOTO 660
710 PRINT " " : A$
720 INK 0, 0
730 INK 1, 26
740 BORDER 5
750 INPUT "AMPLITUDE "; AMP : CLS
760 MODE M
770 A = 1 : B = 399
780 FOR I = 1 TO 4
790 FLAG = TEST(A, B)
800 PLOT A, B, 1

```

```

810 FOR DELAY = 1 TO 10 : NEXT
820 PLOT A, B, FLAG
830 A = A + (INKEY (8) > -1) - (INKEY (1) > -1)
840 B = B + (INKEY (2) > -1) - (INKEY (0) > -1)
850 IF A < 1 THEN A = 639
860 IF A > 639 THEN A = 1
870 IF B < 1 THEN B = 399
880 IF B > 399 THEN B = 1
890 IF INKEY (67) = -1 THEN 950 : REM 0 KEY
900 LOCATE 5,10 : PRINT "X_=" : A - 1
910 LOCATE 5,11 : PRINT "Y_=" : ABS(B - 399)
920 FOR DELAY = 1 TO 3000 : NEXT DELAY
930 LOCATE 5,10 : PRINT SPACE$(13) : PRINT SPACE$(13)
940 GOTO 790
950 IF INKEY (9) > -1 THEN B(T) = A : C(T) = B : PLOT A, B,
1 : PRINT CHR$(7) : FOR DELAY = 1 TO 500 : NEXT : NEXT
: FOR T = 2 TO 4 : PLOT B(T - 1), C(T - 1) : DRAW B(T),
C(T) : NEXT : PLOT B(4), C(4) : DRAW B(1), C(1) : GOTO
970
960 GOTO 790
970 X(1, 1) = B(1) : Y(33, 1) = C(1) : X(33, 1) = B(2) : Y(
33, 33) = C(2) : X(33, 33) = B(3) : Y(1, 33) = C(3) : X(
1, 33) = B(4) : Y(1, 1) = C(4)
980 FOR T = 2 TO 32
990 X(1, T) = X(1, 1) + (RND(1) * AMP) - (AMP / 2) + (((X(1
, 33) - X(1, 1)) / 33) * T)
1000 X(33, T) = X(33, 1) + (RND(1) * AMP) - (AMP / 2) + (((X
(33, 33) - X(33, 1)) / 33) * T)
1010 Y(1, T) = Y(1, 1) + (RND(1) * AMP) - (AMP / 2) + (((Y(1
, 33) - Y(1, 1)) / 33) * T)
1020 Y(33, T) = Y(33, 1) + (RND(1) * AMP) - (AMP / 2) + (((Y
(33, 33) - Y(33, 1)) / 33) * T)
1030 NEXT
1040 RETURN

1050 :
1060 PRINT "bye_ for _now"
1070 SPEED KEY 20, 1
1080 END

```

# ChexSum Tables

10	=	261	380	=	2020	750	=	1565
20	=	0	390	=	5211	760	=	423
30	=	2244	400	=	2361	770	=	1077
40	=	2558	410	=	3277	780	=	987
50	=	2261	420	=	511	790	=	1579
60	=	3862	430	=	0	800	=	736
70	=	2293	440	=	2580	810	=	1464
80	=	4570	450	=	1907	820	=	1144
90	=	0	460	=	2558	830	=	3123
100	=	1893	470	=	6090	840	=	3086
110	=	2923	480	=	6480	850	=	1554
120	=	2072	490	=	3780	860	=	1551
130	=	359	500	=	2700	870	=	1571
140	=	1033	510	=	1814	880	=	1536
150	=	1859	520	=	4060	890	=	2252
160	=	1462	530	=	4851	900	=	1393
170	=	1928	540	=	0	910	=	1871
180	=	1878	550	=	2216	920	=	2190
190	=	1316	560	=	537	930	=	1571
200	=	1011	570	=	466	940	=	247
210	=	1820	580	=	598	950	=	12909
220	=	2466	590	=	583	960	=	247
230	=	2180	600	=	565	970	=	7779
240	=	757	610	=	562	980	=	1027
250	=	1195	620	=	561	990	=	5842
260	=	1161	630	=	561	1000	=	6014
270	=	1265	640	=	138	1010	=	5846
280	=	1149	650	=	1284	1020	=	6018
290	=	1451	660	=	1933	1030	=	176
300	=	1392	670	=	1937	1040	=	201
310	=	1298	680	=	1939	1050	=	0
320	=	1249	690	=	1941	1060	=	1342
330	=	1118	700	=	372	1070	=	537
340	=	7216	710	=	642	1080	=	152
350	=	2306	720	=	266			
360	=	462	730	=	304			
370	=	0	740	=	181			
						TOTAL	=	211064