

MAZE

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20      GOSUB 5000
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30      :
100     IF INKEY(1) > -1 THEN XDIR = 1 : YDIR = 0 : INK 1, 0 :
      GOSUB 500 : INK 1, 24
110     IF INKEY(8) > -1 THEN XDIR = -1 : YDIR = 0 : INK 1, 0
      : GOSUB 500 : INK 1, 24
120     IF INKEY(0) > -1 THEN XDIR = 0 : YDIR = -1 : INK 1, 0 :
      GOSUB 500 : INK 1, 24
130     IF INKEY(2) > -1 THEN XDIR = 0 : YDIR = 1 : INK 1, 0 :
      GOSUB 500 : INK 1, 24
140     IF INKEY(47) > -1 AND X + XDIR < 32 AND X + XDIR > 1 A
ND Y + YDIR < 24 AND Y + YDIR > 1 AND M(X + XDIR, Y + YD
IR) = 32 THEN X = X + XDIR : Y = Y + YDIR : INK 1, 0 : GO
SUB 500 : INK 1, 24 : MOVES = MOVES + 1 : IF X = 16 AND
Y = 2 THEN GOSUB 1000
150     IF INKEY(67) > -1 THEN GOTO 3000
160     GOTO 100
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500     :
510     CLS
520     IF M(X + XDIR, Y + YDIR) <> 32 THEN MOVE 1, 368 : DRAW
      639, 368 : DRAW 639, 80 : DRAW 1, 80 : DRAW 1, 368 : RE
      TURN
530     IF XDIR <> 0 THEN GOTO 540
533     IF M(X + YDIR, Y + YDIR) <> 32 THEN MOVE 1, 368 : DRAW
      160, 298 : DRAW 160, 149 : DRAW 1, 80 ELSE MOVE 1, 298
      : DRAW 160, 298 : DRAW 160, 149 : DRAW 1, 149
534     IF M(X + (YDIR * -1), Y + YDIR) <> 32 THEN MOVE 640, 3
      68 : DRAW 480, 298 : DRAW 480, 149 : DRAW 640, 80 ELSE M
      OVE 640, 298 : DRAW 480, 298 : DRAW 480, 149 : DRAW 640,
      149
540     IF YDIR <> 0 THEN GOTO 550
543     IF M(X + XDIR, Y + (XDIR * -1)) <> 32 THEN MOVE 1, 368
      : DRAW 160, 298 : DRAW 160, 149 : DRAW 1, 80 ELSE MOVE
      1, 298 : DRAW 160, 298 : DRAW 160, 149 : DRAW 1, 149
544     IF M(X + XDIR, Y + XDIR) <> 32 THEN MOVE 640, 368 : DR
      AW 480, 298 : DRAW 480, 149 : DRAW 640, 80 ELSE MOVE 640
      , 298 : DRAW 480, 298 : DRAW 480, 149 : DRAW 640, 149
550     IF M(X + XDIR + XDIR, Y + YDIR + YDIR) <> 32 THEN MOVE
      160, 298 : DRAW 480, 298 : MOVE 160, 149 : DRAW 480, 14
      9 : RETURN
552     IF XDIR <> 0 THEN GOTO 560
553     IF M(X + YDIR, Y + YDIR + YDIR) <> 32 THEN MOVE 160, 2
      98 : DRAW 240, 260 : DRAW 240, 186 : DRAW 160, 149 ELSE
      MOVE 160, 260 : DRAW 80, 0 : DRAW 0, -74 : DRAW -80,
      0
554     IF M(X + (YDIR * -1), Y + YDIR + YDIR) <> 32 THEN MOVE
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      480, 298 : DRAW 400, 260 : DRAW 400, 186 : DRAW 480, 14
9 ELSE MOVE 480, 260 : DRAW -80, 0 : DRAW 0, -74 : DRA
WR 80, 0
560   IF YDIR <> 0 THEN GOTO 570
563   IF M(X + XDIR + XDIR, Y + (XDIR * -1)) <> 32 THEN MOVE
      160, 298 : DRAW 240, 260 : DRAW 240, 186 : DRAW 160, 14
9 ELSE MOVE 160, 260 : DRAW 80, 0 : DRAW 0, -74 : DRAW
R -80, 0
564   IF M(X + XDIR + XDIR, Y + XDIR) <> 32 THEN MOVE 480, 2
98 : DRAW 400, 260 : DRAW 400, 186 : DRAW 480, 149 ELSE
MOVE 480, 260 : DRAW -80, 0 : DRAW 0, -74 : DRAW 80,
0
570   IF M(X + XDIR + XDIR + XDIR, Y + YDIR + YDIR + YDIR) <
> 32 THEN MOVE 240, 260 : DRAW 400, 260 : MOVE 240, 186
: DRAW 400, 186 : RETURN
572   IF XDIR <> 0 THEN GOTO 580
573   IF M(X + YDIR, Y + YDIR + YDIR + YDIR) <> 32 THEN MOVE
      240, 260 : DRAW 288, 238 : DRAW 288, 207 : DRAW 240, 18
6 ELSE MOVE 240, 238 : DRAW 48, 0 : DRAW 0, -31 : DRAW
R -48, 0
574   IF M(X + (YDIR * -1), Y + YDIR + YDIR + YDIR) <> 32 TH
EN MOVE 400, 260 : DRAW 352, 238 : DRAW 352, 207 : DRAW
400, 186 ELSE MOVE 400, 238 : DRAW -48, 0 : DRAW 0, -3
1 : DRAW 48, 0
580   IF YDIR <> 0 THEN GOTO 590
583   IF M(X + XDIR + XDIR + XDIR, Y + (XDIR * -1)) <> 32 TH
EN MOVE 240, 260 : DRAW 288, 238 : DRAW 288, 207 : DRAW
240, 186 ELSE MOVE 240, 238 : DRAW 48, 0 : DRAW 0, -31
: DRAW -48, 0
584   IF M(X + XDIR + XDIR + XDIR, Y + XDIR) <> 32 THEN MOVE
      400, 260 : DRAW 352, 238 : DRAW 352, 207 : DRAW 400, 18
6 ELSE MOVE 400, 238 : DRAW -48, 0 : DRAW 0, -31 : DRA
WR 48, 0
590   IF M(X + XDIR + XDIR + XDIR + XDIR, Y + YDIR + YDIR + Y
DIR + YDIR) <> 32 THEN MOVE 288, 238 : DRAW 352, 238 : M
OVE 288, 207 : DRAW 352, 207 : RETURN
592   IF XDIR <> 0 THEN GOTO 600
593   IF M(X + YDIR, Y + YDIR + YDIR + YDIR + YDIR) <> 32 TH
EN MOVE 288, 237 : DRAW 320, 227 : DRAW 320, 221 : DRAW
288, 208 ELSE MOVE 288, 227 : DRAW 32, 0 : DRAW 0, -6
: DRAW -32, 0
594   IF M(X + (YDIR * -1), Y + YDIR + YDIR + YDIR + YDIR) <
> 32 THEN MOVE 352, 237 : DRAW 320, 227 : DRAW 320, 221
: DRAW 352, 208 ELSE MOVE 352, 227 : DRAW -32, 0 : DRAW
R 0, -6 : DRAW 32, 0
600   IF YDIR <> 0 THEN GOTO 610
603   IF M(X + XDIR + XDIR + XDIR + XDIR, Y + (XDIR * -1)) <
> 32 THEN MOVE 288, 237 : DRAW 320, 227 : DRAW 320, 221
: DRAW 288, 208 ELSE MOVE 288, 227 : DRAW 32, 0 : DRAW
0, -6 : DRAW -32, 0
604   IF M(X + XDIR + XDIR + XDIR + XDIR, Y + XDIR) <> 32 TH
EN MOVE 352, 237 : DRAW 320, 227 : DRAW 320, 221 : DRAW
352, 208 ELSE MOVE 352, 227 : DRAW -32, 0 : DRAW 0, -6
: DRAW 32, 0
610   RETURN
1000  FOR T = 1 TO 24
1010  LOCATE 1, 1
1020  PRINT CHR$(11)
1030  INK 1, T
1040  NEXT T
1050  FOR T = 1 TO 10
1060  FOR N = 500 TO 700 STEP 10
1070  SOUND 129, T, 10, 15
1080  NEXT N : NEXT T

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1090  MODE 0
1100  LOCATE 4, 10 : PEN 7 : PRINT "IT TOOK YOU"
1110  LOCATE 4, 12 : PEN 4 : PRINT MOVES; "MOVES."
1120  PEN 1
1130  FOR T = 1 TO 3000 : NEXT T : GOTO 5010
3000  CLS : PRINT "[C].....CONTINUE"
3010  PRINT "[R].....RESTART"
3020  A$ = INKEY$ : IF A$ = "" THEN GOTO 3020
3030  IF A$ = "C" OR A$ = "c" THEN GOSUB 500 : GOTO 100
3040  IF A$ = "R" OR A$ = "r" THEN RUN
3050  GOTO 3020

5000  :
5005  DIM M (32, 24)
5010  MOVES = 0
5020  X = 16
5030  Y = 23
5035  XDIR = 0
5037  YDIR = -1
5040  MODE 1
5050  INK 0, 0
5060  INK 1, 24
5070  BORDER 0
5080  PRINT "DEFINE MAZE?(Y/N)"
5090  A$ = INKEY$ : IF A$ <> "N" AND A$ <> "Y" AND A$ <> "y"
    AND A$ <> "n" THEN GOTO 5090
5110  IF A$ = "N" OR A$ = "n" THEN GOTO 100
5120  CLS
5130  FOR T = 1 TO 24
5140  FOR N = 1 TO 32
5165  M(N, T) = 233
5170  NEXT N
5180  NEXT T
5185  M(16, 23) = 32
5187  M(16, 2) = 32
5190  A = 16
5192  FOR T = 2 TO 31 : M(T, 1) = 154 : M(T, 24) = 154 : NEXT
    T
5193  FOR T = 2 TO 23 : M(1, T) = 149 : M(32, T) = 149 : NEXT
    T
5194  M(1, 1) = 194 : M(32, 1) = 195 : M(1, 24) = 193 : M(32,
    24) = 192
5200  B = 23
5205  GOSUB 10000
5210  LOCATE A, B
5220  PRINT "*"
5230  LOCATE A, B
5240  PRINT CHR$(M(A, B))
5250  A = A + (INKEY(8) > -1) - (INKEY(1) > -1)
5260  IF A > 31 THEN A = 31
5270  IF A < 2 THEN A = 2
5280  B = B + (INKEY(0) > -1) - (INKEY(2) > -1)
5290  IF B > 23 THEN B = 23
5300  IF B < 2 THEN B = 2
5310  IF INKEY(9) > -1 THEN IF M(A, B) = 233 THEN M(A, B) = 3
    2 ELSE M(A, B) = 233
5320  IF INKEY(67) > -1 THEN FOR T = 0 TO 24 : INK 1, T : SOU
    ND 2, T * 2, 10, 15 : NEXT T : RETURN
5330  SOUND 1, 1, 1, 15
5400  GOTO 5210

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9999 :
10000 FOR T = 1 TO 24
10010 FOR N = 1 TO 32
10020 LOCATE N, T
10030 PRINT CHR$( M(N, T))
10040 NEXT N
10050 NEXT T
10060 RETURN

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ChexSum Tables

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|-------|-------|--------|------|---------|--------|
| 20 = | 376 | 604 = | 9508 | 5140 = | 1020 |
| 30 = | 0 | 610 = | 201 | 5165 = | 1284 |
| 100 = | 3802 | 1000 = | 1018 | 5170 = | 427 |
| 110 = | 4054 | 1010 = | 275 | 5180 = | 433 |
| 120 = | 4046 | 1020 = | 598 | 5185 = | 728 |
| 130 = | 3803 | 1030 = | 478 | 5187 = | 696 |
| 140 = | 17857 | 1040 = | 433 | 5190 = | 486 |
| 150 = | 1845 | 1050 = | 1004 | 5192 = | 3498 |
| 160 = | 322 | 1060 = | 1732 | 5193 = | 3488 |
| 500 = | 0 | 1070 = | 822 | 5194 = | 3477 |
| 510 = | 138 | 1080 = | 861 | 5200 = | 494 |
| 520 = | 5320 | 1090 = | 219 | 5205 = | 276 |
| 530 = | 1452 | 1100 = | 1622 | 5210 = | 658 |
| 533 = | 6762 | 1110 = | 1928 | 5220 = | 333 |
| 534 = | 8177 | 1120 = | 234 | 5230 = | 658 |
| 540 = | 1463 | 1130 = | 2012 | 5240 = | 1318 |
| 543 = | 7347 | 3000 = | 2430 | 5250 = | 3027 |
| 544 = | 7588 | 3010 = | 2242 | 5260 = | 1493 |
| 550 = | 6858 | 3020 = | 2190 | 5270 = | 1416 |
| 552 = | 1472 | 3030 = | 2769 | 5280 = | 3022 |
| 553 = | 8099 | 3040 = | 2212 | 5290 = | 1479 |
| 554 = | 8696 | 3050 = | 437 | 5300 = | 1418 |
| 560 = | 1483 | 5000 = | 0 | 5310 = | 5593 |
| 563 = | 8683 | 5005 = | 660 | 5320 = | 4539 |
| 564 = | 8106 | 5010 = | 788 | 5330 = | 453 |
| 570 = | 8249 | 5020 = | 509 | 5400 = | 332 |
| 572 = | 1524 | 5030 = | 517 | 9999 = | 0 |
| 573 = | 8937 | 5035 = | 705 | 10000 = | 1018 |
| 574 = | 9434 | 5037 = | 952 | 10010 = | 1020 |
| 580 = | 1503 | 5040 = | 220 | 10020 = | 689 |
| 583 = | 9520 | 5050 = | 266 | 10030 = | 1349 |
| 584 = | 8843 | 5060 = | 302 | 10040 = | 427 |
| 590 = | 9576 | 5070 = | 176 | 10050 = | 433 |
| 592 = | 1512 | 5080 = | 1441 | 10060 = | 201 |
| 593 = | 9225 | 5090 = | 5081 | | |
| 594 = | 10100 | 5110 = | 2324 | | |
| 600 = | 1523 | 5120 = | 138 | | |
| 603 = | 9807 | 5130 = | 1018 | | |
| | | | | TOTAL = | 305007 |