

Line #

Statement(s)

Comments

1

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10 BC = 14

20 BC = BC + 16; FC = 0; CLEAR

30 @(1) = 2; @(2) = 2; NT = 50

40 CX = -41; PRINT "BLACK BOX

50 NT = 0

60 CX = -47; CY = 0; PRINT "HOW MANY ATOMS

70 CX = -41; PRINT "DO YOU WANT?

80 CY = -32; INPUT A

100 FOR B = 1 TO A; C = RND(8) + 10
X RND(8)

110 IF @(C) = 1 B = B - 1

120 @(C) = 1; NEXT B

130 CLEAR

140 CY = 32; CX = -29; PRINT "0 1 2
3 4 5 6 7

150 FOR B = 10 TO 17

160 CX = -47; PRINT #2, B, ; CX = 67; P
RINT #2, B + 20, ; NEXT B170 CX = -35; PRINT "20 1 2 3 4 5
6 7"

180 CY = 40; BOX 13, -4, 97, 65, 3

190 FOR B = -29 TO 55 STEP 12

200 FOR C = 24 TO -32 STEP -8

210 BOX B, C, 11, 7, 3

220 NEXT C; NEXT B

230 NEXT B

USE OF SHADED AREA IS FOR 2ND OR MORE LINES OF MULTILINE STATEMENTS

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290 FOR B=1 TO 2400
300 IF @ (22)=16 GOTO 200
310 IF @ (23)=8 GOTO 500
320 IF @ (22)=8 GOTO 360
330 IF @ (21)=8 GOTO 900

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340 NEXT B
350 FC=9; GOTO 290
360 CX=-77;CY=40;INPUT C
370 CX=-41;CY=40;INPUT R
380 C=12xC-29;R=24-8x(R-10)

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390 BOX C, R, 3, 3, 3
400 CY=40;PRINT " "
410 NT=3;GOTO 290

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500 CY=40;CX=-77;INPUT R
510 NT=0;@(2)=@(2)+1;B=R/10;C=
RM+1

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600 IF B=0 J=C;K=0;L=0;M=1
610 IF B=1 J=0;K=C;L=1;M=0
620 IF B=2 J=C;K=9;L=0;M=-1
630 IF B=3 J=9;K=C;L=-1;M=0
640 CX=-77;CY=40;D=10xJ+K

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650 IF @(D)=1 PRINT "ABSORBED"
; GOTO 400

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700 IF L=0 S=D+10+M;T=S-20
710 IF M=0 S=D+1+10xL;T=S-2
720 IF T<1 T=1
730 IF @(S)=1 IF @(T)=1 L=-L;M
=-M; GOTO 780
740 IF L=0 IF @(S)=1 L=-1;M=0;
GOTO 780

```

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750 IF L=0 IF @(T)=1 L=1;M=0;G

OTO 780

760 IF M=0 IF @(S)=1 M=-M;L=0;

GOTO 780

770 IF M=0 IF @(T)=1 M=1;L=0

780 J=J+L;K=K+M

790 IF J<1 GOTO 840

800 IF J>8 GOTO 840

810 IF K<1 GOTO 840

820 IF K>8 GOTO 840

830 GOTO 640

840 K=32-8*K;J=12*J-41

850 NT=50;FOR B=1 TO 50

860 BOX J,K,11,7,3

870 NEXT B

880 NT=3;GOTO 400

900 FOR B=11 TO 88

910 C=B/10-1;D=RM-1

920 C=-29+C*12;D=24-D*8

930 IF @(B)=1 BOX C,D,7,5,3;@(B)=0

940 IF P*(C,D)=1 @(1)=@(1)+1

950 NEXT B

970 NT=50;C=C*12;C=C-35

1000 PRINT "F I N I S H

1010 NT=3;CLEAR

1020 IF @(1)>10 GOTO 3000

2000 PRINT "EUREKA!

2010 CY=0;PRINT "YOU HAD ",#2,A
," ATOMS2020 PRINT "YOU USED ",#1,@(2)-
2," RAYS

2030 GOTO 290

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Line #

Statement(s)

Comments

3000 PRINT "SORRY"

3010 GOTO 290

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