

DISCLAIMER:

This is an arrangement of snapshots from my notes when programming with the Casio Calculator.

preface

Most programs are designed for the Casio fx-9750 G PLUS
be aware of any and all of the following:

User memory capacity: 28,000 bytes

Speed: 9600 bits/sec = 1.2 kbs

each character = 1 byte

each command = 2 bytes

each List/Matrix cell = 10 bytes

first mem# is to program it and the other is how much more it will use to use the program

I assume all variables are already filled.

17 bytes to name new program.

I also exclude the carriage return, it is at the end of every line.

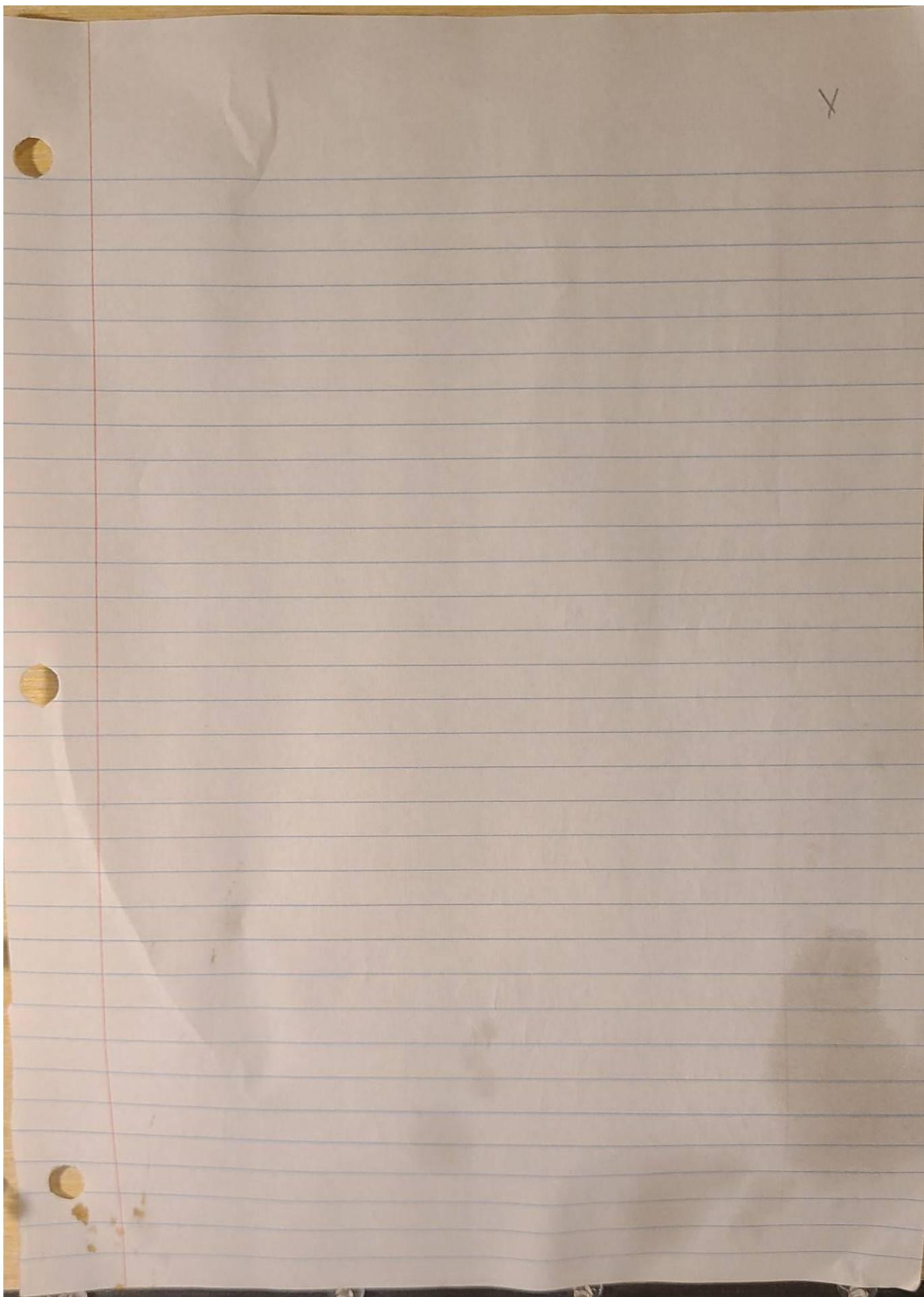
█ means space if not understood.

* this program is found in here somewhere

Fake Company Skribble (scribble) is used [also scribbles]

autoplay is an AI program [shift] to activate [alpha] to deactivate

an ' in a program are notes that will not be displayed or effect the program



page 6)

ii

note approx.
memory range

based on bps 50-200

w/ speed control 40-330

basic/extended 270-1080

matrix mem 4050 1050

1-4 Timers accuracy

4-8 Screen "Savers"

9-10 PONG

11-12 SUDOKU

Math help

13 Prime factor

175+210

14-15 Simplifiers

190-440

16 Mixing #'s

185

Games

9-10 PONG

270-1080

11-12 SUDOKU

matrix mem 4050

1050

17 pick a #

135

18 deck of cards

list mem 1040 440

18-19 catch game

430-660

20 Speed game

570

20 running man

465

Small random

21 identify pixels / inverse pix

120

22 reverse pixels

45

22 roll playing dice damage

190

23 controlled arrow flight

75

23 π PI calculation

mem <50

23 get key identification

mem <30

23 blank menu screen

190

23 Pointer

135

Typing

25 ABC

1335

26 typing

matrix mem 1470 335

26 Read

100

27 ASK

matrix mem 4120 900

28 ANSWER

135

26 KEYPAD

60

page(s)

29 Hangman

426

17 you think of a num

300+

30 (Complex Game) BUBBLES

approx mem 4293

31 1 minute timer

110

Timer Version 2.0

"HOW MANY MINUTES"? → C

ClrGraph

Q → A

Lbl 1: Text 14, 1, "SET FOR █ MINUTES"

Text 14, 33, C

Text 1, 15, "/360 OF A MINUTE"

Q → T

While T < 359

T+1 → T

Text 1, 1, T

While End

Isz A

Cls

Text 7, 1, A

Text 7, 15, "MINUTES"

If A = C

Then Stop

Cls

Else Goto 1

Timer Version 3.1

ClrText

Locate 3,1, "SEC"

Locate 3,2, "MIN"

$I \rightarrow M$

Lbl 1 : $I \rightarrow S$

Do

Locate 1,1,S

for $I \rightarrow A$ To 260

Next

Isz S

LpWhile $S < 60$

Isz M

Locate 1,2,M

Goto 1

Version 4.2

ClrText

$O \rightarrow T$

Locate 4,1, "SEC"

Locate 4,2, "MIN"

Lbl 2 : Isz T

$T \div 60 \rightarrow S$

$S \div 60 \rightarrow M$

$S > 60 \Rightarrow S - 60$ Int M $\rightarrow S$

$S < 10 \Rightarrow$ Locate 2,1," "

Locate 1,1, Int S

Locate 1,2, Int M

Goto 1

skribble

2

Timer Version 5.7

ClrText

$\alpha \rightarrow S$

Lbl α

$S + \alpha^D 0^D 00.07254983833^D \rightarrow S$

Locate 1,1,S

Goto α

the display is in

segadesimal

is obtained by $\frac{S}{P} = \frac{S'}{X}$

$P = \text{previous \#}$ S' is actual time $X = \text{the \#}$

Version 6.2

ClrText

"SET TIME"

"HOUR"? $\rightarrow H$

"MIN"? $\rightarrow M$

"SEC"? $\rightarrow S$

$S \div 3600 + M \div 60 + H \rightarrow T$

ClrText

for $\alpha \rightarrow S$ To T Step 0.00001844533

Locate 1,1,S

Next

Same method as
above

Version 7.0

ClrText

"SET TIME"

"HOUR"? $\rightarrow H$

"MIN"? $\rightarrow M$

"SEC"? $\rightarrow S$

ClrText

$S \div 3600 + M \div 60 + H \rightarrow T$

for $T \rightarrow S$ To $-T$ Step -0.00001844533

Locate 1,1,S

Next

ClrText

mem 61

Timer Version 8.1

for Q->S To 1 step 0.00001844533

Locate 1,1,S

Next

Version 8.2

for Q->S To 1 step 0.00001838150

Locate 1,1,S

Next

4

Screen Saver I (output blip)

Version 1.4

Lbl 1

ClrText

Locate Int 16 Ran#+1, Int 7 Ran#+1, "CASIO°"

For 1→A To 100

Next

Goto 1

Version 2.2

Do

"SPEED"? → C

LpWhile C>0 Or C>10

C×50→C

Lbl 1

ClrText

Int 16 Ran#+1 → A

Int 7 Ran#+1 → B

Locate A,B, "CASIO°"

For 1→D To C

Next

Goto 1

Screen Saver II (Text blip)

Version 1.1

Lbl 1

ClrGraph

Text Int 58 Ran#+1, Int 82 Ran#+1, "SAMPLE TEXT"
For I→A To 100

Next

Goto 1

Version 2.1

Do

"SPEED"?→C

Lpwhile C<0 Or C>10

C×50→C

Lbl 1

ClrGraph

Int 58 Ran#+1→A

Int 82 Ran#+1→B

Text A,B,"SAMPLE TEXT"

For I→D To C

Next

Goto 1

5

Screen Saver III (slide text)

Version 2.3

Do
"SPEFD"? → C

Lp While C < 0 or C > 10

Lb12

ClrGraph

Int 54 Ran# + 1 → R

For I → A To 127 Step C

Text R; A, "SAMPLE TEXT"

Next

Goto 1

Screen Saver IV (bouncing word)

version 1.0

Int 17 Ran# +1 → A

Int 7 Ran# +1 → B

Int 2 Ran# → D

Int 2 Ran# → E

Lb 1 1

A < 2 ⇒ 1 → D

B < 2 ⇒ 1 → E

A > 16 ⇒ Q → D

B > 0 ⇒ Q → E

D = Q ⇒ DSZ A

D = 1 ⇒ DSZ B

E = 1 ⇒ DSZ B

ClrText

Locate A, B, "CASIO"

Goto 1

Screen Saver IV (like pipes)

Version 1.6

Int 21 Ran# + 1 → X

Int 7 Ran# + 1 → Y

Lbl 1

ClrText

for I → A To 25

Locate X, Y, "O"

Int 4 Ran# → B

B = 0 ⇒ Dsz Y

B = 1 ⇒ Isz Y

B = 2 ⇒ Dsz X

B = 3 ⇒ Isz X

X > 1 ⇒ I → X

X < 1 ⇒ 2I → X

Y > 7 ⇒ I → Y

Y < 1 ⇒ 7 → Y

Next

Goto 1

Version 2.2

Do

"SPEED"? → C

Lp While C < 0 Or C > 10

C > 5 → C

Lbl 1

Int 21 Ran# + 1 → X

Int 7 Ran# + 1 → Y

ClrText

for I → A To C

Int 4 Ran# → D

D = 0 ⇒ Isz Y

D = 1 ⇒ Isz X

D = 2 ⇒ Dsz X

screen saver IV Version 2.2 continued

$D=3 \Rightarrow D_{S2} Y$

$X > 21 \Rightarrow I \rightarrow X$

$X < 1 \Rightarrow 21 \rightarrow X$

$Y > 7 \Rightarrow I \rightarrow Y$

$Y < 1 \Rightarrow 7 \rightarrow Y$

Locate $X, Y, "O"$

Next

Goto 1

Version 3.1 (interactive)

Do

"Speed" ? $\rightarrow C$

Lp While $C < 0$ or $C > 10$

$C \times 5 \rightarrow C$

Lbl 1

Int 21 Ran# + 1 $\rightarrow X$

Int 7 Ran# + 1 $\rightarrow Y$

ClrText

For $I \rightarrow A$ To C

GetKey $\rightarrow G$

$G = 0 \Rightarrow$ Int 4 Ran# $\rightarrow D$

$G > 0 \Rightarrow 4 \rightarrow D$

$G = 37$ or $D = 0 \Rightarrow I_{S2} Y$

$G = 27$ or $D = 1 \Rightarrow I_{S2} X$

$G = 38$ or $D = 2 \Rightarrow D_{S2} X$

$G = 28$ or $D = 3 \Rightarrow D_{S2} Y$

$X > 21 \Rightarrow I \rightarrow X$

$X < 1 \Rightarrow 21 \rightarrow X$

$Y > 7 \Rightarrow I \rightarrow Y$

$Y < 1 \Rightarrow 7 \rightarrow Y$

Locate $X, Y, "O"$

Next

Goto 1

7

Screen Saver VI (3 bouncing balls)

Int 2 Ran# → A
Int 2 Ran# → B
Int 2 Ran# → C
Int 2 Ran# → D
Int 2 Ran# → E
Int 2 Ran# → F
Int 21 Ran#+1 → X
Int 7 Ran#+1 → Y
Int 21 Ran#+1 → V
Int 7 Ran#+1 → W
Int 21 Ran#+1 → T
Int 7 Ran#+1 → U

Do

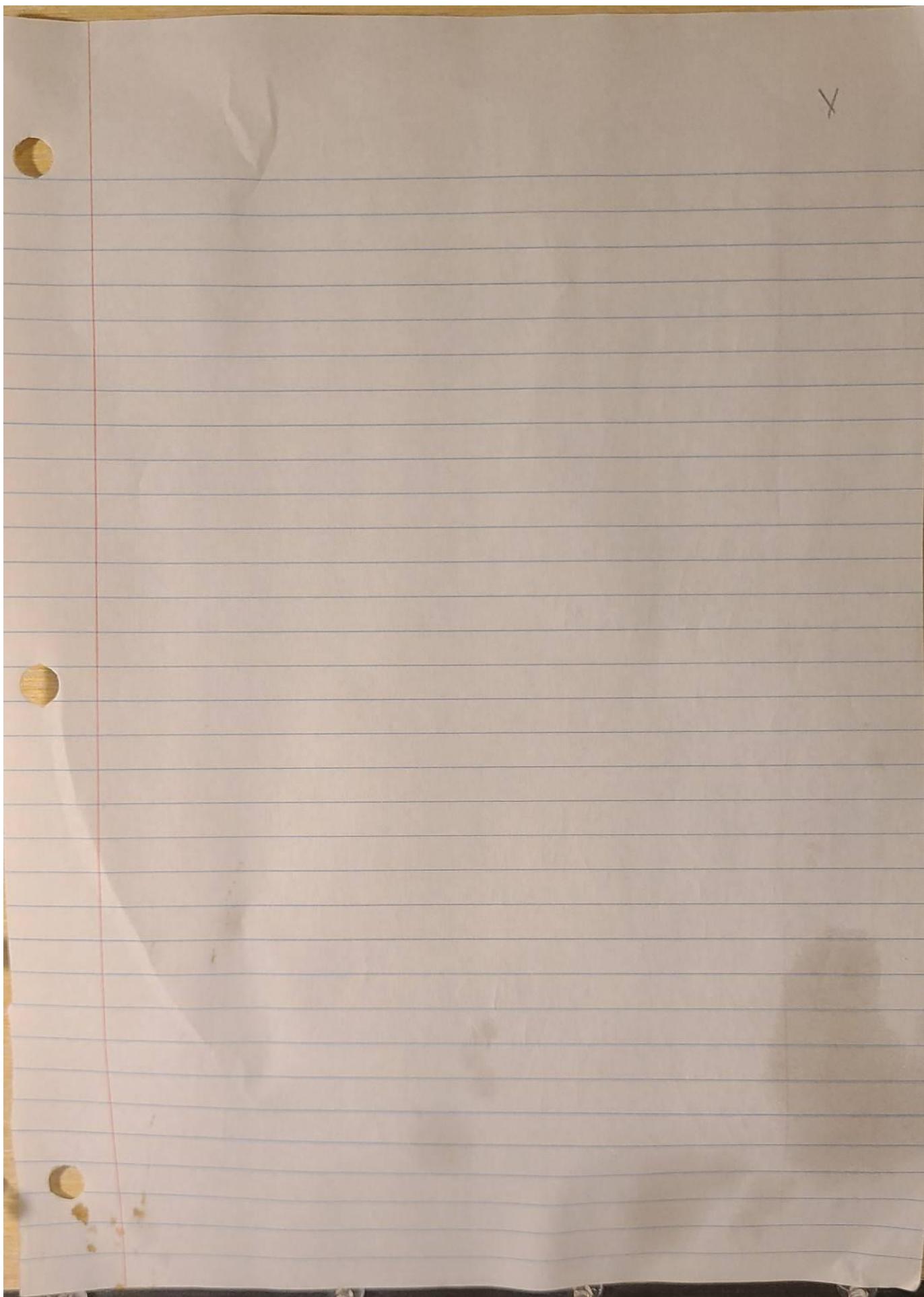
X=1 ⇒ I → A
X=2 ⇒ O → A
Y=1 ⇒ I → B
Y=7 ⇒ O → B
V=1 ⇒ I → C
V=2 ⇒ O → C
W=1 ⇒ I → D
W=7 ⇒ O → D
T=1 ⇒ I → E
T=2 ⇒ O → E
U=1 ⇒ I → F
U=7 ⇒ O → F

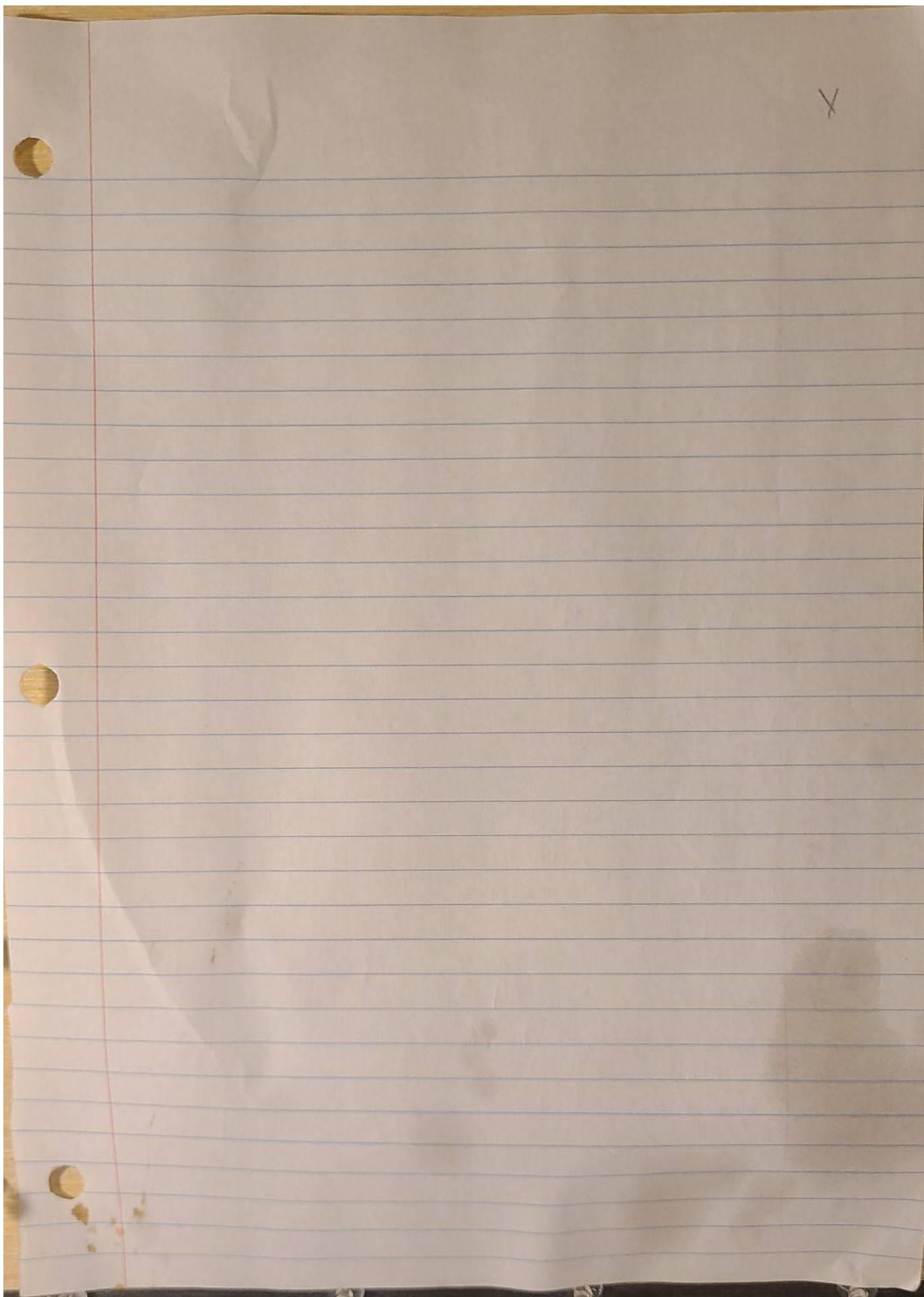
A=Q ⇒ DS2 X
A=I ⇒ IS2 X
B=Q ⇒ DS2 Y
B=I ⇒ IS2 Y
C=O ⇒ DS2 V
C=I ⇒ IS2 V

D=Q ⇒ DS2 W
D=I ⇒ IS2 W
E=Q ⇒ DS2 T
E=I ⇒ IS2 T
F=Q ⇒ DS2 U
F=I ⇒ IS2 U

Locate X, Y, "0"
Locate V, W, "0"
Locate T, U, "0"
Lpwhile 1

(Next side)





Pong

basic Version 3.1

9 → A : 7 → B : 8 → C : Q → E : Q → S

Int 2 Rand# → D

Do

D = Q ⇒ Ds2 A

D = I ⇒ Is2 A

E = Q ⇒ Ds2 B

E = I ⇒ Is2 B

For I → N To 2

GetKey → G

G = 27 ⇒ Is2 C

G = 38 ⇒ Ds2 C

C > 19 ⇒ 19 → C

C < 1 ⇒ 1 → C

ClrText

Locate C, 7, "= - = "

Locate A, B, " 0 "

Next

A < 2 ⇒ I → D

B < 2 ⇒ I → E

A > 20 ⇒ Q → D

B > 6 ⇒ Q → E

B = 7 And A ≠ C And A ≠ C + 1 And A ≠ C + 2 ⇒ Break

B = 7 ⇒ Is2 S

Lp While 1

ClrText

Locate 7, 3, "GAME OVER"

Locate 7, 5, "SCORE:"

Locate 13, 5, S

Stop

Skribble Pong autoplay

9

Extended Version 4.3

ClrText

Locate 6,4, "Version 4.3"

For 1 → A To 250

Next

ClrText

Locate 7,2, "scrabble"

Locate 8,3, "Presents"

Locate 10,5, "Log"

Locate 9,5, "Mod"

Locate 9,5, "P"

Locate 11,5, "n"

Locate 1,7, press [EXE] to start!"

ClrGraph

Text 1,1, "use left and right to keep the"

Text 7,1, "ball up. use the [OPTN] button"

Text 13,1, "To change the bar. use the"

Text 19,1, "[VARS] button to change the"

Text 25,1, "ball. [MENU] will pause the"

Text 31,1, "Game and [EXE] will resume."

Text 37,1, "[EXIT] will stop the game."

Text 43,1, "[SHIFT] will turn on Autoplay."

Text 49,1, "And [ALPHA] will turn it off."

Text 55,1, "I hope you have fun. [EXE]"

for 1 → A To 100

Next

for 1 → A To 2000

GetKey → G

(G>0 And G<31) → Break

Next

9→A:7→B:8→C:1→E:0→F:0→S:1→R:1→θ

Int 2 Rnd# → D

Do

D=0 \Rightarrow DS2 A

D=1 \Rightarrow IS2 A

E=1 \Rightarrow DS2 B

E=0 \Rightarrow IS2 B

For I \rightarrow N To 2

GetKey \rightarrow G

G=48 \Rightarrow Locate 1,7, "PAUSE" ~~BUTTON~~ PRESS [EXE]

G=78 \Rightarrow I \rightarrow J

G=77 \Rightarrow 0 \rightarrow I

I=1 \Rightarrow A-1 \rightarrow C

G=68 \Rightarrow IS2 0

G=58 \Rightarrow IS2 r

r=4 \Rightarrow I \rightarrow r

0=6 \Rightarrow I \rightarrow 0

G=47 \Rightarrow ClrText

G=47 \Rightarrow Stop

G=27 \Rightarrow IS2 C

G=38 \Rightarrow DS2 D

C>19 \Rightarrow 19 \rightarrow C

C<1 \Rightarrow 1 \rightarrow C

ClrText

0=1 \Rightarrow Locate C,7,"=-"

0=2 \Rightarrow Locate C,7,"---"

0=3 \Rightarrow Locate C,7,"><"

0=4 \Rightarrow Locate C,7,"(-)"

0=5 \Rightarrow Locate C,7,"=V="

r=1 \Rightarrow Locate A,B,"o"

r=2 \Rightarrow Locate A,B,"0"

r=3 \Rightarrow Locate A,B,"O"

Next

A<2 \Rightarrow I \rightarrow D

B<2 \Rightarrow 0 \rightarrow E

A>2 0 = 0 \rightarrow D

B>6 \Rightarrow I \rightarrow E

B=7 And A \neq C And A \neq C+1

And A \neq C+2 \Rightarrow Break

B=7 \Rightarrow IS2 S

Lp While 1

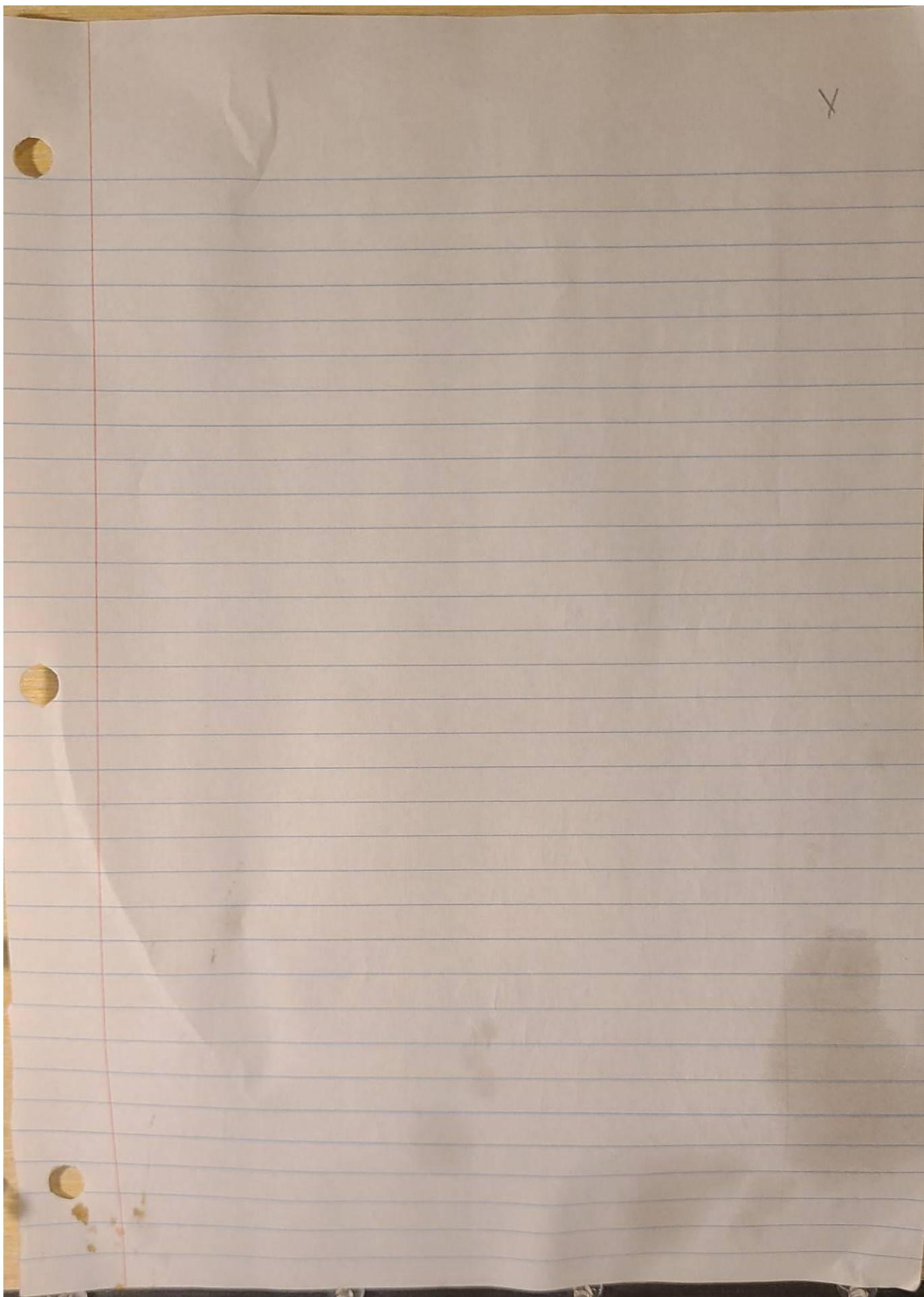
ClrText

Locate 7,3,"GAME OVER"

Locate 7,5,"SCORE:"

Locate 13,5,S

Stop



version 3.2

NEWSUDOK is for a new game
and SUDOKU is to play game

NEWSUDOK

Do

ClrText+

"HOW MANY NUMBERS"? $\rightarrow Z$

Lp While $Z < 0$ Or $Z > 81$ Or Frac $Z \neq 0$

{9,9} \rightarrow Dim Mat G

Mat G \rightarrow Mat H

Mat G \rightarrow Mat I

Mat G \rightarrow Mat J

Mat G \rightarrow Mat K

Locate 1,6, "Loading..."

Locate 1,7, "["

Locate 21,7, "]"

For 1 \rightarrow N To Z

Int $(N \div Z \times 19) + 1 \rightarrow P$

$P > 1 \Rightarrow$ Locate P,7, "="

Do

Int 9 Ran# + 1 $\rightarrow A$

Int 9 Ran# + 1 $\rightarrow C$

Int 9 Ran# + 1 $\rightarrow D$

3 Int $((C - 1) \div 3) +$ Int $((D + 2) \div 3) \rightarrow B$

Lp While Mat H[A,C] = 1 Or Mat I[A,D] = 1 Or

Mat J[A,B] = 1 Or Mat K[C,D] $\neq 0$

A \rightarrow Mat G[C,D]

1 \rightarrow Mat H[A,C]

1 \rightarrow Mat I[A,D]

1 \rightarrow Mat J[A,B]

1 \rightarrow Mat K[C,D]

Next

Prog "SUDOKU"

SUDOKU

ClrGraph

ViewWindow 1,15,1,1,10,1

Text 1,90, "SUDOKU"

F-Line 4,10,4,1

F-Line 7,10,7,1

F-Line 10,10,10,1

F-Line 1,7,10,7

F-Line 1,4,10,4

Text 25,90, "WAIT..."

for I → C To 9

for I → D To 9

Int 7C-5→E

Int 9D-6→F

Mat G[C,D] → Q

Q ≠ 0 → Text E,F+2,Q

Next

Next

Text 24,90, "SELECT ████"

Text 31,95, "WHERE"

Text 43,90, "Q=ERASE"

Text 49,90, "10=QUIT"

Text 55,90, "11=BACK"

Text 12,90, "READY ████"

5.5→G~H

Lbl 1

Plot G,H

X→G:Y→H

10-Int 4→C

Int X→D

D>9→Goto 1

Mat K[C,D] ≠ 0 → Goto 1

Do

ClrText

"B"

Locate 1,1,"WRITE"

? → A

(pWhile A<0 or A>11 or frac A ≠ 0

A=10 → Goto 9

A=11 → Goto 1

3Int ((C-1)÷3) + Int ((D+2)÷3) → B

Mat G [C,D] → M

A = 0 → Goto 2

Mat H [A,C]=1 Or Mat I [A,D] Or Mat J [A,B]=1 → Goto 1

1 → Mat H [A,C]

1 → Mat I [A,D]

1 → Mat J [A,B]

Lbl 2

If M ≠ 0

Then 0 → Mat H [M,C]

0 → Mat I [M,D]

0 → Mat J [M,B]

If End

A → Mat G [C,D]

Int 7C-5 → E

Int 9D-4 → F

A ≠ 0 → Text E,F,A

A = 0 → Text E,F,"B"

Goto 1

Lbl 9

[0] → Mat G

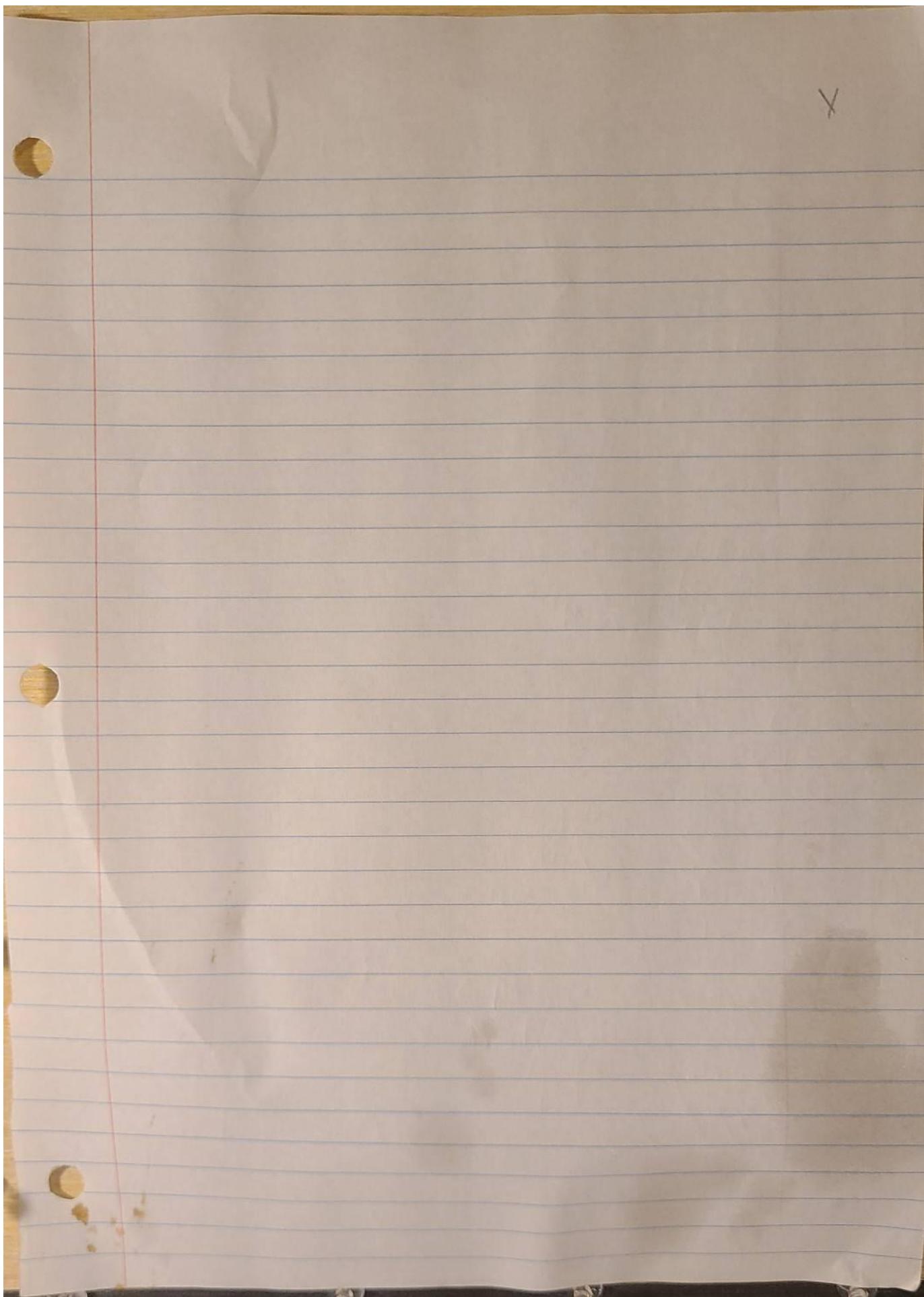
Mat G → Mat H

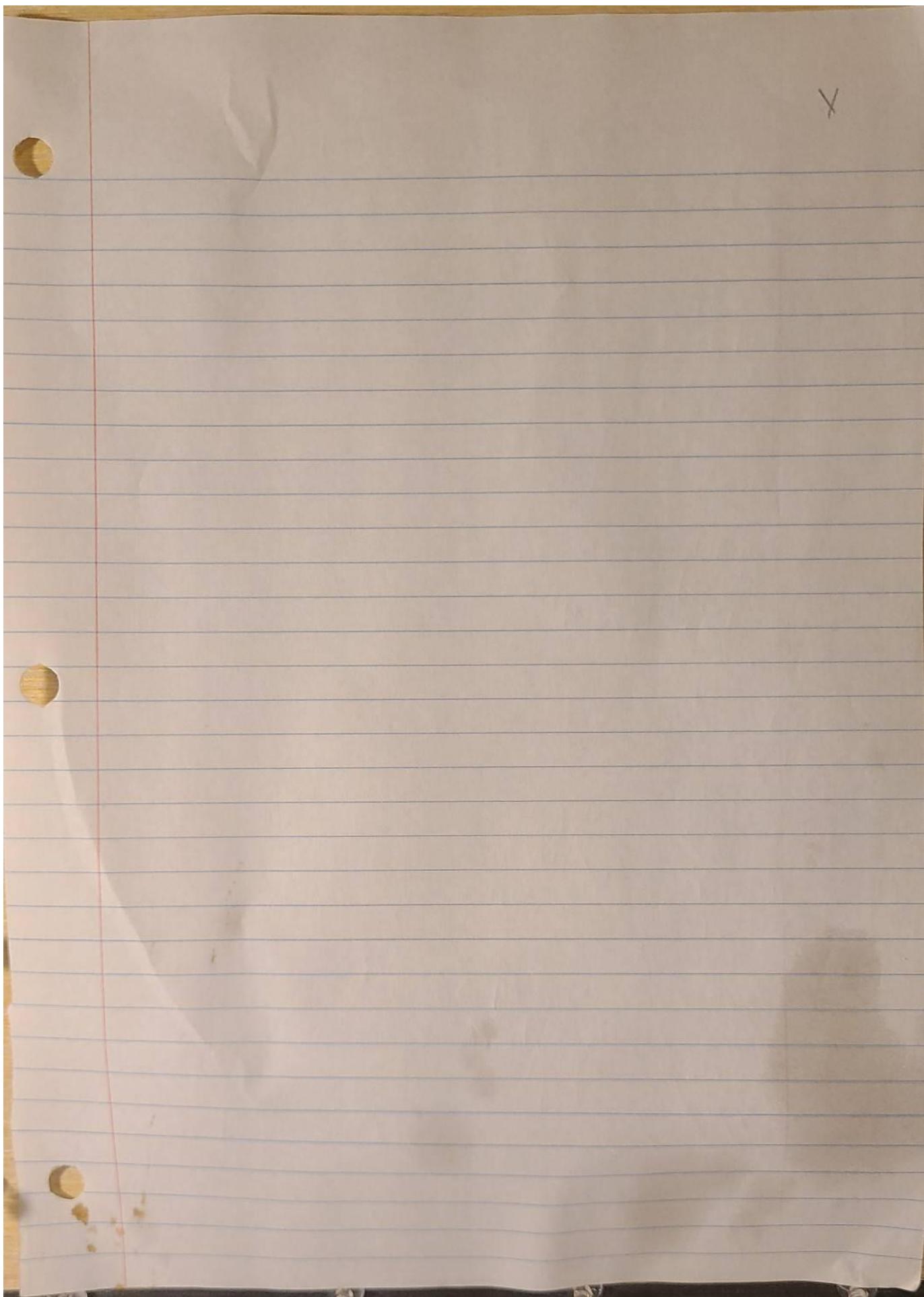
Mat G → Mat I

Mat G → Mat J

Mat G → Mat K

ClrText





Version

(list form)

13

Lbl 2:

Prime factors (list form)

ClrText

10 → Dim List 1

1 → D

"PRIME FACTOR"? → A

Goto 2

Lbl 1: 2 → List 1[D]: Isz D

A ÷ 2 → A: A = 1 ⇒ Goto 9: 3 → B

Lbl 2: Frac(A ÷ 2) = 0 ⇒ Goto 1: 3 → B

Lbl 3: √A + 1 → C

Lbl 4: B ≥ C ⇒ Goto 8: Frac(A ÷ B) = 0 ⇒ Goto 6

Lbl 5: B + 2 → B: Goto 4

Lbl 6: A ÷ B × B - A = 0 ⇒ Goto 7: Goto 5

Lbl 7: B → List 1[D]: Isz D

A ÷ B → A: Goto 3

Lbl 8: A → List 1[D]

Lbl 9: List 1

Version 1.0 (non list)

ClrText

"PRIME FACTOR"? → A

Goto 2

Lbl 1: 2

A ÷ 2 → A: A = 1 ⇒ Goto 9: 3 → B

Lbl 2: Frac(A ÷ 2) = 0 ⇒ Goto 1: 3 → B

Lbl 3: √A + 1 → C

Lbl 4: B ≥ C ⇒ Goto 8: Frac(A ÷ B) = 0 ⇒ Goto 6

Lbl 5: B + 2 → B: Goto 4

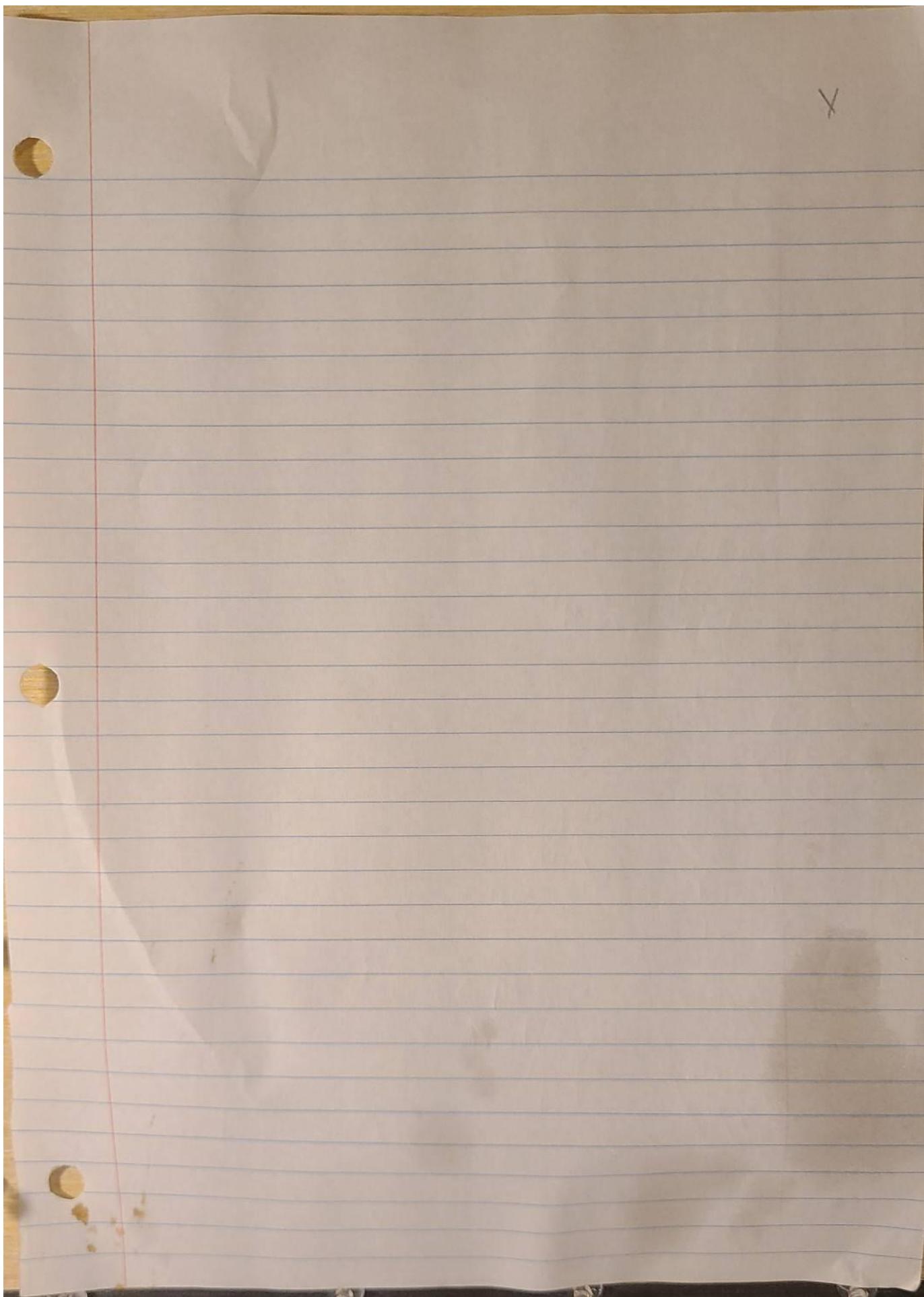
Lbl 6: A ÷ B × B - A = 0 ⇒ Goto 7: Goto 5

Lbl 7: B

A ÷ B → A: Goto 3

Lbl 8: A

Lbl 9: "Done"



Radical simplify

Version 4.5

ClrText

"█"

Locate 1,1," \sqrt{N} " Int N = "
? → N

Abs N → O

Int(O÷2) → F

Locate 1,7,"WAIT..."

For I → A To F

O÷A² → C

Frac C = Q ⇒ C → D

Frac C = Q ⇒ A → E

Next

ClrText

"█"

E>I ⇒ Locate 1,1,E

D>I ⇒ Locate 3,1," $\sqrt{ }$ "

D>I ⇒ Locate 4,1,D

N<0 ⇒ Locate 7,1,"i"

Locate 1,5,"Ans"

Locate 1,6, \sqrt{N}

Skribble

Rationalizer

version 1.9

$I \rightarrow A \sim D$

ClrText

"EQUATION"? $\rightarrow Y$

Abs $Y \rightarrow Z$

Locate 1,1, "WAIT..."

$Z^2 \rightarrow F$

For $I \rightarrow F$ To 1 Step -1

$F^2 \rightarrow L$

Frac ($F \times L$) $\rightarrow J$

frac $\sqrt{L} \rightarrow K$

$J \neq \emptyset$ And $K \neq \emptyset \Rightarrow \sqrt{L} \rightarrow C$

$J \neq \emptyset$ And $K \neq \emptyset \Rightarrow F \times L \rightarrow B$

$B \rightarrow G$

Next

$G \rightarrow N$

If $\text{frac } \sqrt{G} \neq Q$

Then Int $\sqrt{(N \div 2)} \rightarrow F$

For $F \rightarrow H$ To 1 Step -1

$H^2 \rightarrow P$

$N \div P \rightarrow I$

frac $I = Q \Rightarrow I \rightarrow B$

frac $I = Q \Rightarrow H \rightarrow D$

frac $I = \emptyset \Rightarrow \text{Break}$

Next

If End

$D \sqrt{B \div C} \rightarrow X$

ClrText

" \emptyset ": " \emptyset "

frac $\sqrt{B} \neq Q$ And $D \neq \emptyset \Rightarrow \text{Locate } 9,1,D$

frac $\sqrt{B} \neq Q \Rightarrow \text{Locate } 11,1,\sqrt{ }$

frac $\sqrt{B} \neq Q \Rightarrow \text{Locate } 12,1,B$

frac $\sqrt{B} = Q \Rightarrow \text{Locate } 11,1,\sqrt{B}$

$C \neq \emptyset \Rightarrow \text{Locate } 9,2,"---$

$C \neq \emptyset \Rightarrow \text{Locate } 11,3,C$

$X = 1 \text{ And } Y \neq 1 \Rightarrow \text{Locate } 11,1,\emptyset$

$X = 1 \text{ And } Y \neq 1 \Rightarrow \text{Locate } 8,2,\text{"Not Able"}$

Locate 1,5, "Calc = "

Locate 6,5,X

Locate 1,6, "Ans = "

$(\sqrt{Y})^2$

RATIONAL Version 1.10

 $I \rightarrow A = 0$

ClrText

 $"EQUATION" ? \rightarrow Y$ $Abs Y \rightarrow Z$

Locate 1,7, "Wait..."

 $Z^2 \rightarrow F$ for 1(0) $\rightarrow E$ To 1 Step -1 $E^2 \rightarrow L$ Frac $(F \times L) \rightarrow J$ Frac $\sqrt{L} \rightarrow K$ Not J And Not K $\Rightarrow \sqrt{L} \rightarrow C$ Not J And Not K $\Rightarrow F \times L \rightarrow B$ $B \rightarrow G$

Next

 $G \rightarrow N$ If $Frac \sqrt{G} \neq \emptyset$ Then Int $\sqrt{N=1} \rightarrow F$ for $F \rightarrow H$ To 1 Step -1 $H^2 \rightarrow P$ $N \div P \rightarrow I$ Frac $I = \emptyset \Rightarrow I \rightarrow B$ Frac $I = \emptyset \Rightarrow H \rightarrow D$ Frac $I = \emptyset \Rightarrow Break$

Next

If End

 $D \sqrt{B} \div C \rightarrow X$

ClrText

 $"\text{D}" := "\text{X}" := "\text{Y}" := "\text{Z}" := "\text{B}" := "\text{C}"$ If $X \neq 1$ And $Y \neq 1$ Then $Frac \sqrt{B} \neq \emptyset$ And $D > 1 \Rightarrow$ Locate 4,1,DFrac $\sqrt{B} \neq \emptyset \Rightarrow$ Locate 6,1," $\sqrt{}$ "Frac $\sqrt{B} \neq \emptyset \Rightarrow$ Locate 7,1,B

$2 \rightarrow F$

MIXing

version 1.3

Clr Text

"HOW MANY"? $\rightarrow N$

Locate 1,7,"["

Locate 21,7,"]"

$N \rightarrow$ Dim List 2

Seq(X,X,1,N,1) \rightarrow List 1

For I \rightarrow 3 To N

Lbl 1

Int(NRan#+1 $\rightarrow A$

List 1[A] $\rightarrow C$

C=0 \neq Goto 1

C \rightarrow List 2[B]

Q \rightarrow List 1[A]

Int ((B \div N) \times 19)+1 $\rightarrow P$

For F \rightarrow F To P

P>I \Rightarrow Locate F,7,"="

Next

Next

List 2

page(s)

29 Hangman

426

17 You think of a num

300+

30 Complex (Game) BUBBLES

approx mem 4293

31 1 minute timer

110

Prog "AAA"

Think of a number
between 1 and 100
inclusive, and I
will try to guess it.

think of a number.
Now press exec when done

$\emptyset \Rightarrow A : 101 \rightarrow B$

Lbl 1

C\rtText

Int 100 Rand #+1 $\rightarrow C$

$C > A$ And $C < B \Rightarrow$ Goto 2 : Goto 1

Lbl 2

" B ": " A ": " C "

Locate 1,1,C

Locate 1,3, "Higher, lower, yes"

? \neq D

D = Lower $\Rightarrow C \rightarrow B$

D = higher $\Rightarrow C \rightarrow A$

D = yes \Rightarrow "I win!"

D = Lower or D = higher \Rightarrow Goto 1

Pick a number (first game made)

Version 4.0

ClrText

A → A

"
"

"
"

Locate 1,1, "I'M THINKING OF A"

Locate 1,2, "NUMBER 1-100"

Int 100 Ran#+1 → N

Lbl 1 :? → U

Isz A

U>N ⇒ "LESS"

U<N ⇒ "MORE"

U=N ⇒ Goto 1

U=N ⇒ "CORRECT"

U=N ⇒ "TRIES":A

Deck of cards

version 4.1

Lbl Ø

ClrText

Locate 2,1, "PLAY"

Locate 2,2, "SHUFFLE"

1→r : Prog "MENU"*

r>2 → Locate 8,7, "Menu ERROR"

r=1 → Goto 2

r=2 → Goto 1

Lbl 1 : ClrL

S2 → N : C

ClrText

Locate 1,7, "SHUFFLING"

Prog "MIX"*

Locate 1,7, "TRANSFERRING"

for 1→z To 52

List2[z] → Y

Y>Ø → Y+.4 → X

Y>13 → (Y-13)+.3 → X

Y>26 → Y-26+.2 → X

Y>39 → Y-39+.1 → X

X → List 2[z]

Next

List 2 → List 1

Goto Ø

Lbl 2

for 1→u To 52

ClrText

"Ø".

Int List 1[u] → V

Locate 1,1,V

V=1 → Locate 1,1,"A"

V=11 → Locate 1,1,"J"

N=12 → Locate 1,1,"Q"
V=13 → Locate 1,1,"K"
frac List 1[u] → W
W=.1 → Locate 3,1,"D"
W=.2 → Locate 3,1,"C"
W=.3 → Locate 3,1,"H"
W=.4 → Locate 3,1,"S"

u

Next

Goto Ø

Catch game

Version 3.1

 $\emptyset \rightarrow S : 4 \rightarrow D : 2 \rightarrow C$

ClrText

Lbl 1

Int 7 Ran# + 1 → R

For I → A To C - 4

Locate A, R, "B = -->"

GetKey → G

 $G = 28 \Rightarrow D \leftarrow D$ $G = 28 \text{ And } D > Q \Rightarrow \text{Locate } C, D + 1, "B"$ $G = 37 \Rightarrow I \leftarrow D$ $G = 37 \text{ And } D < 8 \Rightarrow \text{Locate } C, D - 1, "B"$ $D \leftarrow 8 \Rightarrow I \rightarrow D$ $D \leq Q \Rightarrow I \rightarrow D : \text{Locate } C, D, "O"$

Next

If $C = R$ Then $I \leftarrow S$ $21 - (\text{Int}(S \div 3)) \rightarrow C$

Goto 1

Else ClrText

Locate 7, 3, "GAME OVER"

Locate 7, 5, "SCORE:"

Locate 13, 5, S

Stop

Skribble

autoplay

Catch (Porn version) Version 4.1

ClrText

Locate 7,2,"sCribble"

Locate 8,3,"Presents"

Locate 8,5,"Pin"

Locate 10,5,"ayi"

Locate 12,5,"er"

"D": "I": "B": "A": "O": "P"

Locate 1,1,"your on the right"

Locate 1,2,"catch the stuff"

Locate 1,3,"flying at you. use"

Locate 1,4,"up and down to move."

Locate 1,5,"USE [OPTION] TO change"

Locate 1,6,"The icons are:)"

O→S:4→D:2O→C:O→I:O→r

Lb1

ClrText

Int 7 Rand# +1 → R

For I → A To C-2

r=0 → Locate A,R,"B-<"

r=1 → Locate A,R,"B8-"

GetKey → G

G=68 → Isz2 r

r>1 → O → r

G=78 → I → I

I=1 And R>D → 37 → G

I=1 And R<D → 28 → G

G=77 → O → I

G=28 → Dsz D

G=28 And D>0 → Locate C,D+1,"B"

G=37 → Isz D

G=37 And D<8 → Locate C,D-1,"B"

$D \geq 8 \Rightarrow 7 \rightarrow D$

$D \leq 0 \Rightarrow 1 \rightarrow D$

$r = 0 \Rightarrow \text{Locate } C, D, "-8"$

$r = 1 \Rightarrow \text{Locate } C, D, ">-"$

$Ncxt$

If $D = R$

Then $\text{Int } S$

$20 - (\text{Int } (S \div 3)) \rightarrow C$

Goto 1

Else ClrText

Locate 7, 3, "GAME OVER"

Locate 7, 5, "SCORE:"

Locate 13, 5, S

Stop

20

running man version 1.3.

1 → A : 4 → B : 2 → X : 4 → Y : -1 → S : Q → G

ClrText

Lbl Q

Int 2 | Rand# + 1 → E

Int 7 | Rand# + 1 → F

Lbl I : Isz S

A > 2 | → 2 | → A

X > 2 | → 1 | → X

X < 1 | → 2 | → X

Y > 7 | → 1 | → Y

Y < 1 | → 7 | → Y

ClrText

Locate E, F, "θ"

Locate A, B, "B"

Locate X, Y, "A"

GetKey → G

G = 28 → Dsz Y

G = 27 → Isz X

G = 38 → Dsz X

G = 37 → Isz Y

A > X | → Isz A

A < X | → Dsz A

B > Y | → Isz B

B < Y | → Dsz B

A = X And B = Y | → Goto 2

X = F And Y = F | → Goto Q : Goto 1

Lbl 2

ClrText

Locate 7, 3, "GAME OVER"

Locate 7, 5, "SCORE:"

Locate 13, 5, S

Stop

Speed Game Version 1.5

ClrText

"0": "0": "0": "0": "0"

Locate 1,1, "you must push the"

Locate 1,2, "indicated button"

Locate 1,3, "using the directional"

Locate 1,4, "arrows before time"

Locate 1,5, "runs out." ▲

ClrText

101 → D

Lbl J : Dsz D

D < 100 And D > 70 ⇒ Locate 7,1, "EASY"

D < 70 And D > 40 ⇒ Locate 7,1, "MID"

D < 40 And D > 10 ⇒ Locate 7,1, "HARD"

D < 10 And D > 0 ⇒ Locate 7,1, "S. HARD"

D < 0 ⇒ Locate 7,1, "HELL"

Locate 4,4, "+"

Int 4 Ran# → R

Locate 4,7, "WATCH"

R = 1 ⇒ Locate 4,3, "^" (karot)

R = 2 ⇒ Locate 5,4, ">" (greater than)

R = 3 ⇒ Locate 4,5, "V" (letter V)

R = 4 ⇒ Locate 3,4, "<" (less than)

for I → C To D

Next

ClrText

Locate 4,7, "READY"

15 → A

Lbl 2 : Dsz A

A = 9 ⇒ Locate 20,7, "0"

(get key → G

1 = Q ⇒ Goto 3

G = 28 ⇒ I → B

G = 27 ⇒ 2 → B

G = 37 ⇒ 3 → B

G = 30 ⇒ Q → B

G = Q ⇒ Goto 2

B = R ⇒ Goto 1

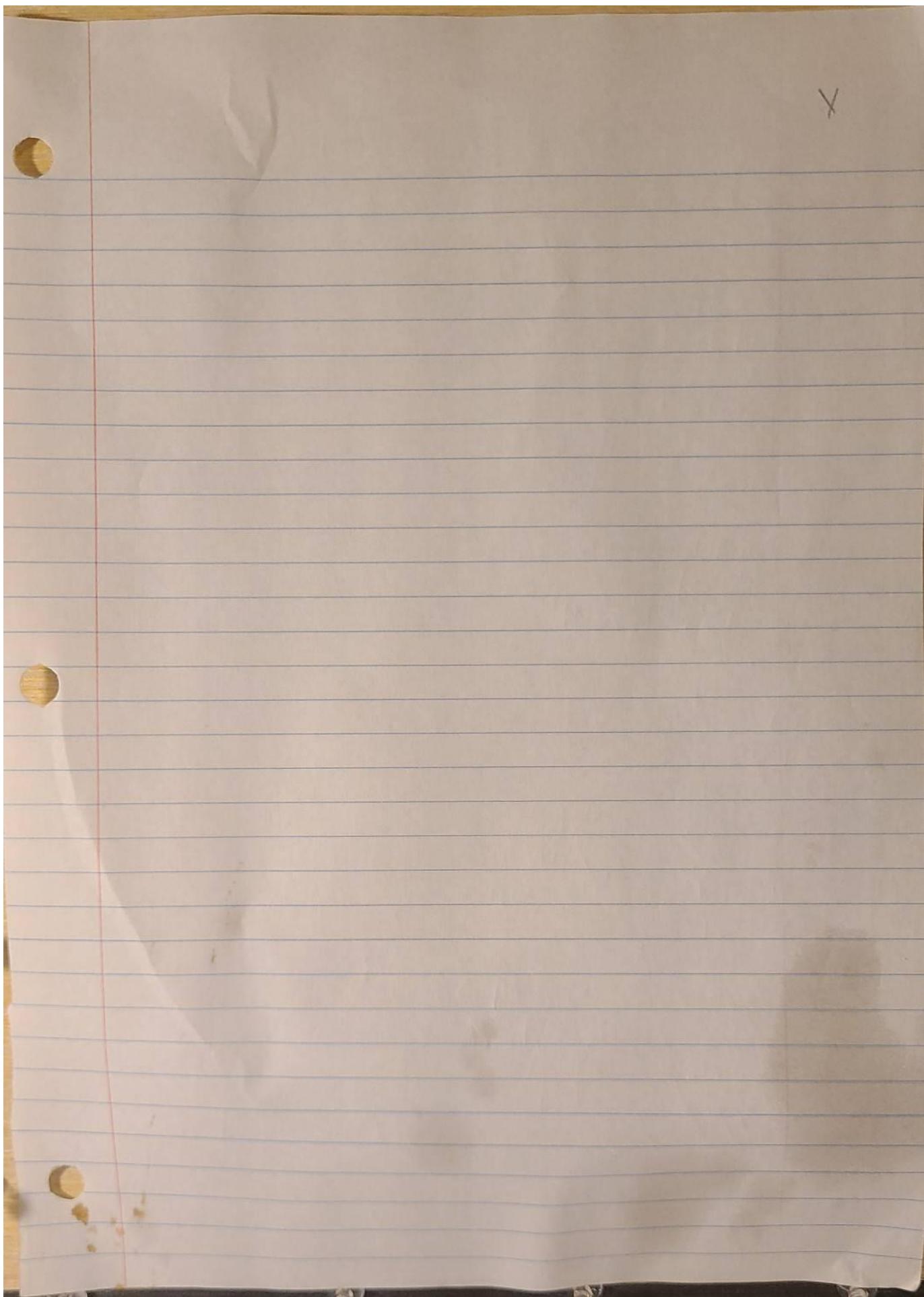
Lbl 3 : ClrText

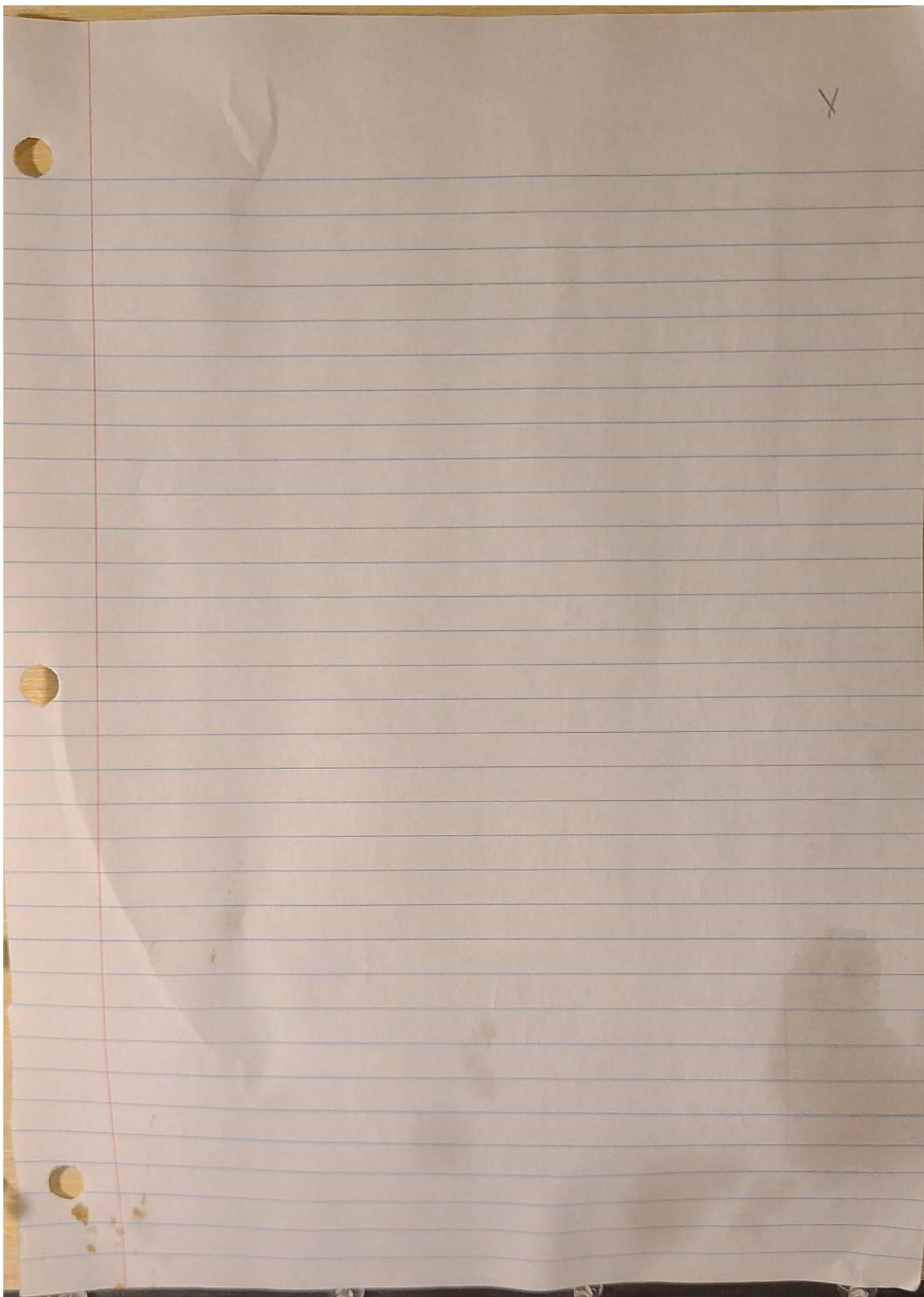
Locate 7,3, "Game over"

Locate 7,5, "SCORE:"

Locate 13,5, 100 - D

Stop





identify pixels^(picture 1) version 2.1

Clr Graph

Rcl Pict 1

for I → B To 63

For I → A To 127

Pxl Test B, A

Ans → C

If C = 1

Then ClrText

Locate 9,5,B

Locate 12,5,A

Locate 11,5,"A"

Next

Next

Stop

reverse pixels version 2.0

Clr Graph

Rcl Pict 1

for I → B To 63

for I → A To 127

Plot Chg A,B

Next

Next

Stop

2.2 Roll playing dice damage version 1.2

$\delta \rightarrow A : \delta \rightarrow T$

"Number of sides"? $\rightarrow S$

"Number of dice"? $\rightarrow D$

"Additives"? $\rightarrow M$

"Percent damage"? $\rightarrow P$

Label: $\text{Int } S \text{ Ran} \# + 1 \rightarrow N$

$N+A \rightarrow A : I \leq T$

If $T=D$

Then "Total damage"

$(P \div 100) \rightarrow Z$

$(M+A)Z \rightarrow Q$

$Q+M+A$

Stop

Else Goto 1

$$((M+A)(P \div 100)) + M+A \rightarrow Z$$

Controlled Arrow Flight version 2.3

Int 7 Ran #+1 → R

for I → A To 28

(Clr Text

Locate A,R,"= -->"

GetKey → G

G = 28 → ISZ R

G = 37 → DSZ R

Next

PI (π) calculations

$$4 \sum (((-1)^{(x-1)}) \div (2x-1), x, 1, \infty, 1) \quad 4 \left(\sum_{x=1}^{\infty} \frac{(-1)^{x-1}}{2x-1} \right)$$

or
 $\infty \times \sin 180 - \infty$

A → A : 3 → B

Lbl 1 : A-1 ÷ B+1 ÷ (B+2) → A

B+4 → B

Locate 1,1,A×4

GetKey

$$\frac{\pi}{4} = 1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \frac{1}{9} \dots$$

GetKey identification

"READY 1, 2, 3"

GetKey → G

Locate 1,1,G

Blank MENU Screen Version 4.1

23

I → Q

Do

GetKey → G

G = 28 ⇒ Dsz r

G = 37 ⇒ Isz r

G = 31 ⇒ Break

r > 7 ⇒ 7 → r

r < 1 ⇒ 1 → r

G = 28 And r < 7 ⇒ Locate 0, r + 1, "█"

G = 37 And r > 1 ⇒ Locate 0, r - 1, "█"

Locate 0, r, "→"

Lp While G ≠ 31

Return

Pointer

Version 1.1

I → A ~ B

CirText

Lbl 1

Locate A, B, "→"

A → C : B → D

Getkey → G

G = 28 ⇒ Dsz B

G = 37 ⇒ Isz B

B > 7 ⇒ 7 → B

B < 1 ⇒ 1 → B

G = 27 ⇒ Isz A

G = 38 ⇒ Dsz A

A > 21 ⇒ 21 → A

A < 1 ⇒ 1 → A

G ≠ Q ⇒ Locate C, D, "█"

Loop 1

blank menu Version 5.1

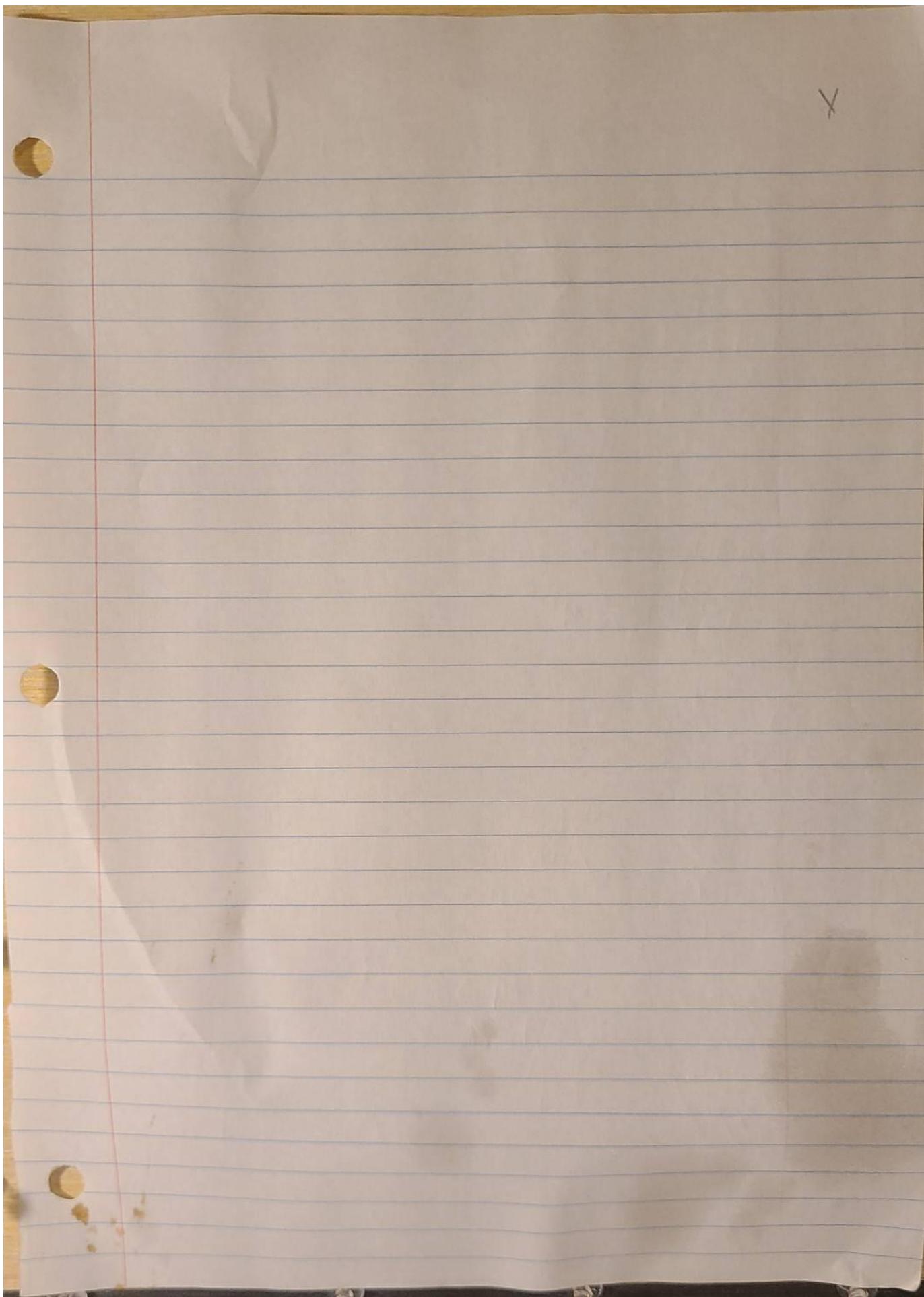
 $Y \rightarrow Y$ for $Y \rightarrow A \rightarrow 100$

Next

Label L

Locate 1, Y, " \rightarrow "Get Key $\rightarrow G$ $G = 28 \Rightarrow D_{52} Y$ $G = 37 \Rightarrow I_{52} Y$ $G = 31 \Rightarrow \text{Return}$ $Y < 1 \Rightarrow Y \rightarrow Y$ $Y > 7 \Rightarrow 7 \rightarrow Y$ $G = 28 \Rightarrow \text{Locate } 1, Y+1, "\#"$ $G = 37 \Rightarrow \text{Locate } 1, Y-1, "\#"$

Goto L



ABC

version 2.1

$G=1 \Rightarrow Goto 1$	$G=67 \Rightarrow Locate A,B, 7$
$G=25 \Rightarrow Locate A,B, "L"$	$G=68 \Rightarrow Locate A,B, 2$
$G=26 \Rightarrow Locate A,B, "F"$	$G=69 \Rightarrow Locate A,B, "2"$
$G=28 \Rightarrow Locate A,B, 5$	$G=71 \Rightarrow Locate A,B, "Z"$
$G=29 \Rightarrow Locate A,B, "/$	$G=72 \Rightarrow Locate A,B, "U"$
$G=32 \Rightarrow Locate A,B, "Y"$	$G=73 \Rightarrow Locate A,B, "P"$
$G=33 \Rightarrow Locate A,B, "T"$	$G=74 \Rightarrow Locate A,B, "M"$
$G=35 \Rightarrow Locate A,B, "K"$	$G=75 \Rightarrow Locate A,B, "G"$
$G=36 \Rightarrow Locate A,B, "E"$	$G=76 \Rightarrow Locate A,B, "A"$
$G=37 \Rightarrow Locate A,B, "Q"$	$G=77 \Rightarrow Locate A,B, 6$
$G=39 \Rightarrow Locate A,B, ","$	$G=78 \Rightarrow Locate A,B, 1$
$G=42 \Rightarrow Locate A,B, "X"$	$G=79 \Rightarrow Locate A,B, ":"$
$G=43 \Rightarrow Locate A,B, "S"$	$H=0 \Rightarrow Goto 9$
$G=45 \Rightarrow Locate A,B, "J"$	$Lb 1 1$
$G=46 \Rightarrow Locate A,B, "D"$	$G=125 \Rightarrow Locate A,B, "Im"$
$G=47 \Rightarrow Locate A,B, 9$	$G=126 \Rightarrow Locate A,B, "f"$
$G=48 \Rightarrow Locate A,B, 4$	$G=129 \Rightarrow Locate A,B, "I"$
$G=49 \Rightarrow Locate A,B, ","$	$G=132 \Rightarrow Locate A,B, "y"$
$G=52 \Rightarrow Locate A,B, "W"$	$G=133 \Rightarrow Locate A,B, "t"$
$G=53 \Rightarrow Locate A,B, "R"$	$G=135 \Rightarrow Locate A,B, "K"$
$G=54 \Rightarrow Locate A,B, "O"$	$G=136 \Rightarrow Locate A,B, "e"$
$G=55 \Rightarrow Locate A,B, "I"$	$G=142 \Rightarrow Locate A,B, "x"$
$G=56 \Rightarrow Locate A,B, "C"$	$G=143 \Rightarrow Locate A,B, "s"$
$G=57 \Rightarrow Locate A,B, 8$	$G=145 \Rightarrow Locate A,B, "J"$
$G=58 \Rightarrow Locate A,B, 3$	$G=146 \Rightarrow Locate A,B, "d"$
$G=59 \Rightarrow Locate A,B, "!"$	$G=152 \Rightarrow Locate A,B, "W"$
$G=61 \Rightarrow Locate A,B, "#"$	$G=153 \Rightarrow Locate A,B, "r"$
$G=62 \Rightarrow Locate A,B, "V"$	$G=154 \Rightarrow Locate A,B, "f"$
$G=63 \Rightarrow Locate A,B, "Q"$	$G=155 \Rightarrow Locate A,B, "i"$
$G=64 \Rightarrow Locate A,B, "N"$	$G=156 \Rightarrow Locate A,B, "c"$
$G=65 \Rightarrow Locate A,B, "H"$	$G=161 \Rightarrow Locate A,B, "d"$
$G=66 \Rightarrow Locate A,B, "B"$	$G=162 \Rightarrow Locate A,B, "V"$

$G=163 \Rightarrow \text{Locate } A, B, "Q"$

$G=164 \Rightarrow \text{Locate } A, B, "n"$

$G=165 \Rightarrow \text{Locate } A, B, "H"$

$G=166 \Rightarrow \text{Locate } A, B, "b"$

$G=171 \Rightarrow \text{Locate } A, B, "z"$

$G=172 \Rightarrow \text{Locate } A, B, "u"$

$G=173 \Rightarrow \text{Locate } A, B, "p"$

$G=174 \Rightarrow \text{Locate } A, B, "m"$

$G=175 \Rightarrow \text{Locate } A, B, "G"$

$G=176 \Rightarrow \text{Locate } A, B, "a"$

$G=129 \Rightarrow \text{IS2 A}$

$G=137 \Rightarrow \text{IS2 B}$

$G=137 \Rightarrow Q \rightarrow A$

1619

Return

need programs
ABC and READ
to use Typing

$Q \rightarrow H$

$I \rightarrow A \sim B$

$\{21, 7\} \rightarrow \text{Dim Mat } T$

ClrText

Lbl I

$B > 7 \Rightarrow \text{stop}$

$H = Q \Rightarrow \text{Locate } A, B, " \Rightarrow "$

$H = I \Rightarrow \text{Locate } A, B, " \rightarrow "$

GetKey $\rightarrow G$

Not $G \Rightarrow \text{Goto I}$

$G = 31 \Rightarrow \text{Return}$

If $G = 27 \text{ or } G = 12$

Then Fill($Q, \text{Mat } T$)

$I \rightarrow A \sim B$

ClrText

Goto I

If End

$G = 41 \Rightarrow I \rightarrow H$

$G = 51 \Rightarrow Q \rightarrow H$

$G = 41 \text{ Or } G = 51 \Rightarrow \text{Goto I}$

$H = I \Rightarrow G + 1 \& Q \rightarrow G$

$G = 144 \Rightarrow 44 \rightarrow G$

$G = 44 \Rightarrow Dsz A$

$A > 21 \Rightarrow Dsz B$

$A > 21 \Rightarrow I \rightarrow A$

$G = 44 \text{ And } A < 1 \Rightarrow \text{Locate } I, B, " \rightarrow "$

$A < 1 \Rightarrow Dsz B$

$A < 1 \Rightarrow 21 \rightarrow A$

$A < 1 \text{ And } B < 1 \Rightarrow I \rightarrow A \sim B$

$G = 44 \Rightarrow Q \rightarrow \text{Mat } T[A, B]$

$G = 44 \Rightarrow \text{Goto I}$

$G \rightarrow \text{Mat } T[A, B]$

version 2-9

prog "ABC"

Isz A

$A > 21 \Rightarrow Isz B$

$A > 21 \Rightarrow I \rightarrow A$

Goto I

26

Read version 1.0

2 → H

ClrText

For I → B To 7

For I → A To 21

Mat T[A,B] → G

Not G → Goto 1

Prog "ABC" *

Next

Next

Stop

Lbl 1

Locate 21,7," "

Return

KEYPAD version 1.0 mem 60

Lbl 1

GetKey → G

Not G → 0 → Z

Not G → Goto 1

G > 0 And Z ≠ 0 → Goto 1

G > 0 → I → Z

Return

need programs
ABC and ANSWER
to use

Ask (like AskJudd.com) Version 1.3

ClrText

"Q": "P": "R": "Z": "B": "D"

Q → C ~ D

Q → H

{21,23} → Dim Mat Q

for I → B To 2

for I → A To 21

Lb11

GetKey → G

Not G ⇒ Goto1

G = 41 ⇒ Isz D

G = 41 And D = 2 ⇒ Dsz A

G > 0 ⇒ Isz C

G > 0 And G ≠ 41 And D = 1 ⇒ G → Mat Q[A,B]

If D = 1

Then C = 1 ⇒ Locate A,B,"P"

C = 2 ⇒ Locate A,B,"L"

C = 3 ⇒ Locate A,B,"E"

C = 4 ⇒ Locate A,B,"A"

C = 5 ⇒ Locate A,B,"S"

C = 6 ⇒ Locate A,B,"E"

C = 7 ⇒ Locate A,B,"B"

C = 8 ⇒ Locate A,B,"H"

C = 9 ⇒ Locate A,B,"E"

C = 10 ⇒ Locate A,B,"L"

C = 11 ⇒ Locate A,B,"P"

C = 12 ⇒ Locate A,B,"Q"

C = 13 ⇒ Locate A,B,"M"

C = 14 ⇒ Locate A,B,"E"

C = 15 ⇒ Locate A,B,"Z"

C = 16 ⇒ Locate A,B,"A"

C = 17 ⇒ Locate A,B,"N"

C = 18 ⇒ Locate A,B,"S"

C = 19 ⇒ Locate A,B,"WU"

C = 20 ⇒ Locate A,B,"E"

C = 21 ⇒ Locate A,B,"R"

C = 22 ⇒ Locate A,B,"M"

C = 23 ⇒ Locate A,B,"Y"

C = 24 ⇒ Locate A,B,"Z"

C = 25 ⇒ Locate A,B,"F"

C = 26 ⇒ Locate A,B,"R"

C = 27 ⇒ Locate A,B,"I"

C = 28 ⇒ Locate A,B,"E"

C = 29 ⇒ Locate A,B,"N"

C = 30 ⇒ Locate A,B,"D"

C = 31 ⇒ Locate A,B,"S"

C = 32 ⇒ Locate A,B,"Z"

C = 33 ⇒ Locate A,B,"Q"

C = 34 \Rightarrow Locate A,B,"U"

C = 35 \Rightarrow Locate A,B,"E"

C = 36 \Rightarrow Locate A,B,"S"

C = 37 \Rightarrow Locate A,B,"T"

C = 38 \Rightarrow Locate A,B,"I"

C = 39 \Rightarrow Locate A,B,"O"

C = 40 \Rightarrow Locate A,B,"N"

C = 41 \Rightarrow Locate A,B,"."

Else prog "ABC"

If End

G = 79 \Rightarrow Goto 3

Next

Next

Lbl 3

For I \rightarrow F To 100

Next

For I \rightarrow B To 5

For I \rightarrow A To 21

Lbl 2

Get Key \rightarrow G

Not G \Rightarrow Goto 2

G = 69 \Rightarrow Locate A,B,"?"

G = 69 \Rightarrow prog "ANS" *

Prog "ABC" *

Next

Next

ANSWER

version 1.1

Mat $Q[2,1] \rightarrow Q$

Not Q \Rightarrow "No Reply"

Not Q \Rightarrow Stop

for I \rightarrow C To 2

For I \rightarrow A To 2

Mat $Q[A,C] \rightarrow G$

not G And A \neq I And B \neq I \Rightarrow Goto I

C + 5 \rightarrow B

Prog "ABC" *

Next

Next

Lbl I

Locate I, 6, " "

Stop

ABC version 3.2

 $G \rightarrow N$ $N = 0 \Rightarrow \text{Return}$ $N > 70 \Rightarrow \text{Goto 5}$ $N > 60 \Rightarrow \text{Goto 4}$ $N > 50 \Rightarrow \text{Goto 3}$ $N > 40 \Rightarrow \text{Goto 2}$ $N > 30 \Rightarrow \text{Goto 1}$

Lbl 0

 $G = 25 \Rightarrow \text{Locate A,B,"L"}$ $G = 26 \Rightarrow \text{Locate A,B,"F"}$ $G = 28 \Rightarrow \text{Locate A,B,"5"}$ $G = 29 \Rightarrow \text{Locate A,B,"/"}$ Goto 9 : Lbl 1 $G = 32 \Rightarrow \text{Locate A,B,"Y"}$ $G = 33 \Rightarrow \text{Locate A,B,"T"}$ $G = 35 \Rightarrow \text{Locate A,B,"K"}$ $G = 36 \Rightarrow \text{Locate A,B,"E"}$ $G = 37 \Rightarrow \text{Locate A,B,"Q"}$ $G = 39 \Rightarrow \text{Locate A,B,"!"}$ Goto 9 : Lbl 2 $G = 42 \Rightarrow \text{Locate A,B,"X"}$ $G = 43 \Rightarrow \text{Locate A,B,"S"}$ $G = 45 \Rightarrow \text{Locate A,B,"5"}$ $G = 46 \Rightarrow \text{Locate A,B,"D"}$ $G = 47 \Rightarrow \text{Locate A,B,"9"}$ $G = 48 \Rightarrow \text{Locate A,B,"4"}$ $G = 49 \Rightarrow \text{Locate A,B,"!"}$ Goto 9 : Lbl 3 $G = 52 \Rightarrow \text{Locate A,B,"W"}$ $G = 53 \Rightarrow \text{Locate A,B,"R"}$ $G = 54 \Rightarrow \text{Locate A,B,"O"}$ $G = 55 \Rightarrow \text{Locate A,B,"I"}$ $G = 57 \Rightarrow \text{Locate A,B,"8"}$ $G = 58 \Rightarrow \text{Locate A,B,"3"}$ $G = 59 \Rightarrow \text{Locate A,B,"!"}$ Goto 9 : Lbl 4 $G = 61 \Rightarrow \text{Locate A,B,"■"}$ $G = 62 \Rightarrow \text{Locate A,B,"V"}$ $G = 63 \Rightarrow \text{Locate A,B,"C"}$ $G = 64 \Rightarrow \text{Locate A,B,"N"}$ $G = 65 \Rightarrow \text{Locate A,B,"H"}$ $G = 66 \Rightarrow \text{Locate A,B,"B"}$ $G = 67 \Rightarrow \text{Locate A,B,"7"}$ $G = 68 \Rightarrow \text{Locate A,B,"Z"}$ $G = 69 \Rightarrow \text{Locate A,B,"?"}$ Goto 9 : Lbl 5 $G = 71 \Rightarrow \text{Locate A,B,"Z"}$ $G = 72 \Rightarrow \text{Locate A,B,"U"}$ $G = 73 \Rightarrow \text{Locate A,B,"P"}$ $G = 74 \Rightarrow \text{Locate A,B,"M"}$ $G = 75 \Rightarrow \text{Locate A,B,"G"}$ $G = 76 \Rightarrow \text{Locate A,B,"A"}$ $G = 77 \Rightarrow \text{Locate A,B,"6"}$ $G = 78 \Rightarrow \text{Locate A,B,"1"}$ $G = 79 \Rightarrow \text{Locate A,B,"."}$

Lbl 9 : Return

need ABC
and READ

mem 322

Type version 3.1

ClrText

0 → H

1 → A ~ B

{21, 73} → Dim Mat A

1 b1 1 : Isz H

H > 20 → 0 → H

B > 7 → Stop

H < 10 → Locate A, B, "⇒ █"

H > 10 → Locate A, B, "→ █"

Get Key → G

Not G → Goto 1

Locate A, B, "█"

G = 31 → Return

If G = 27

Then Fill(0, Mat A)

1 → A ~ B

ClrText

Goto 1

Else If G = 38

Then Isz B

0 → A

If End

G = 44 → Dsz A

A > 21 → Isz B

A > 21 → 1 → A

G = 44 And A < 1 → Locate 1, B, "█"

A < 1 → Dsz B

A < 1 → 21 → A

G = 44 → 0 → Mat A[A, B]

G = 44 → Goto 1

G → Mat A[A, B]

G → N

prog "ABC"

Isz A

A > 21 → Isz B

A > 21 → 1 → A

Goto 1

Need ABC, READ, and Type

mem 364

29

Hangman Version 1.3

$I \rightarrow J$

Prog "Type"

For $I \rightarrow B$ To 3

For $I \rightarrow A$ To 21

Mat $A[A, B] \rightarrow G$

Not $G \Rightarrow Goto 3$

Frac $(G \div 10) = .9 \Rightarrow Next$

$G \neq 61$ or $G \neq 0 \Rightarrow Locate A, B, "-"$

$G = 61 \Rightarrow Locate A, B, "B"$

Next

Next

Lbl 3

Locate 5, 6, J

Locate 7, 6, "Tries left"

Locate 3, 7, "choose a letter!"

Lbl 1

GetKey $\rightarrow H$

$H = 0 \Rightarrow Goto 1$

Locate 3, 7, "B(x16)"

$O \rightarrow I$

for $I \rightarrow B$ To 3

for $I \rightarrow A$ To 21

Not $G \Rightarrow Goto 4$

If $G = H$

Then $H \rightarrow G : I \rightarrow I$

Prog "ABC"

IfEnd

Next

Next

Lbl 4

$I = 0 \Rightarrow Dsz J : J \rightarrow J$

If $J = 0$

Then Locate 5, 6, J

Locate 6, 4, "Game over"

for $I \rightarrow L$ To 500

Next

Prog "READ"

IfEnd

Goto 3

need READ, TYPE, and ABC

Hangman version 1.4

Q → W : 7 → V

Prog "TYPE"

For I → B To 3

For I → A To 21

Mat A[A,B] → G

Not G ⇒ Goto 3

Frac(G ÷ 10) = .9 ⇒ Next

G ≠ 61 or G ≠ Q ⇒ Locate A,B, "-"

G ≠ 61 And G ≠ Q And Frac(G ÷ 10) ≠ .9 ⇒ Isz W

G = 61 ⇒ Locate A,B, "█"

Next

Next

Lbl 3 : Locate 5,6,V

Locate 7,6, "Tries left"

Locate 3,7, "Choose a letter"

Lbl 1

GetKey → H

Not H ⇒ Goto 1

Locate 3,7, "█ x 17"

O → I

for I → B To 3

for I → A To 21

Mat A[A,B] → G

Not G ⇒ Goto 4

If G = H

Then H → G : I → J

Prog "ABC"

Dsz W

IfEnd

Next

Next

Lbl 4

Not I ⇒ Dsz V : V → V

If V = 0

Then Locate 5,6,V

Locate 6,4, "Game Over"

For I → L To 250

Next

Prog "READ"

Else W = 0 ⇒ Locate 7,4, "you win"

W = 0 = Stop

IfEnd

Goto 3

Kina like an ask Judd thing.

The negative (-) is to
activate ANS

F1 is the period ".
F2 is the question "?"

As R

Clrtext

for $I \rightarrow F$ To 100

$I \rightarrow B$

Next

$\emptyset \rightarrow C \sim D$

For $2 \rightarrow B$ To 7

$\{2, 1\} \rightarrow \text{Dim Mat } Q$

for $I \rightarrow A$ To 21

For $I \rightarrow F$ To 100

Lbl 2

Next

GetKey $\rightarrow G$

For $I \rightarrow A$ To 21

$G = \emptyset \Rightarrow \text{Goto 2}$

Lbl 1

$G = 69 \Rightarrow \text{Locate } A, B, "?"$

GetKey $\rightarrow G$

$G = 69 \Rightarrow \text{Prog "ANS"}$

$G = \emptyset \Rightarrow \text{Goto 1}$

Prog "ABC"

$G = 41 \Rightarrow \text{Isz 1}$

Next

$G = 41 \text{ And } D = 2 \Rightarrow \text{Dsz A}$

Next

$G = \emptyset \Rightarrow \text{Isz C}$

Next

$G > 0 \text{ And } G \neq 41 \text{ And } D = 1 \Rightarrow$

ANS

$G \rightarrow \text{Mat } Q[A, B]$

$I \rightarrow B$

If $D = 1$

$\text{Mat } Q[2, 1] \rightarrow Q$

Then $C = 1 \Rightarrow \text{Locate } A, B, "P"$

Clrtext

$C = 2 \Rightarrow \text{Locate } A, B, "L"$

$Q = \emptyset \Rightarrow \text{"NO REPLY"}$

$C = 3 \Rightarrow \text{Locate } A, B, "E"$

$Q = \emptyset \Rightarrow \text{Stop}$

$C = 4 \Rightarrow \text{Locate } A, B, "A"$

For $2 \rightarrow A$ To 21 Step 2

$C = 5 \Rightarrow \text{Locate } A, B, "S"$

$\text{Mat } Q[A, B] \rightarrow G$

$C = 6 \Rightarrow \text{Locate } A, B, "E"$

$G = \emptyset \Rightarrow \text{Goto 1}$

$C = 7 \Rightarrow \text{Locate } A, B, "I"$

Dsz A

$C = 8 \Rightarrow \text{Locate } A, B, "A"$

Prog "ABC"

$C = 9 \Rightarrow \text{Locate } A, B, "N"$

Next

$C = 10 \Rightarrow \text{Locate } A, B, "S"$

$C = 11 \Rightarrow \text{Locate } A, B, "W"$

Next

$C = 12 \Rightarrow \text{Locate } A, B, "E"$

$C = 13 \Rightarrow \text{Locate } A, B, "Z"$

Next

$C = 14 \Rightarrow \text{Locate } A, B, "B"$

$C = 15 \Rightarrow \text{Locate } A, B, "T"$

Next

$C = 16 \Rightarrow \text{Locate } A, B, "H"$

$C = 17 \Rightarrow \text{Locate } A, B, "I"$

Next

$C = 18 \Rightarrow \text{Locate } A, B, "S"$

Lbl 1

$C = 19 \Rightarrow \text{Locate } A, B, "$

Locate 21, 7, "

Else prog "ABC"

Stop

If End

$G = 79 \Rightarrow \text{Break}$

Next

" \sqrt{N} N=?" → N

Abs N → 0

Int(0-B) → F

for I → A. To f

$O = A^2 \rightarrow C$

Frac C = 0 → C → D

Frac C = 0 → A → E

Next

clrText

E>1 ⇒ Locate 1, 1, E

D>1 ⇒ Locate 3, 1, " $\sqrt{ }$ "

D>1 ⇒ Locate 4, 1, D

N<0 ⇒ Locate 6, 1, "i"

\sqrt{N}

\sqrt{N}

RATIONAL

clr text

To be revised

" \sqrt{N} "? $\rightarrow N : \text{Abs } N \rightarrow H : N \geq 3 \Rightarrow \text{Stop} : \text{Int}(H \div 4) \rightarrow F$

for $I \rightarrow A \neq 0 \rightarrow F$ ($H=4$)

$\text{frac}(H \div A^2) \rightarrow I \Rightarrow ? : I = \emptyset \Rightarrow A^2 \rightarrow B$

Next $A \div (H-4)$,

$H \div B \rightarrow C, \sqrt{ }$

$B > 1 \Rightarrow \text{Locate } 1, 3, \sqrt{B}$

$C > 0 \Rightarrow \text{Locate } 4, 3, \sqrt{ }$

$C > 0 \Rightarrow \text{Locate } 5, 3, C$

$N < 0 : N < 0 \Rightarrow \text{Locate } 3, 3, "i"$

Locate 1, 4, "Ans"

Locate 3, 5, \sqrt{N}

0 for $\sqrt{ }$

"Repeating #'s"? $\rightarrow A$

$A \rightarrow C : \emptyset \rightarrow B$

Do

$C = 10 \rightarrow C$

$I \leq B$

10 while $\text{Int}(C) > 0$

$10^{\wedge} B \rightarrow B$

$(A, B) \div (1 - (1, B)) \rightarrow F$

Locate 1, 3, F

for repeating decimals

Typing Programs

mem[0] Program ABC

G=76 → Locate A,B,"A"
 G=66 → Locate A,B,"B"
 G=56 → Locate A,B,"C"
 G=46 → Locate A,B,"D"
 G=36 → Locate A,B,"E"
 G=26 → Locate A,B,"F"
 G=16 → Locate A,B,"G"
 G=65 → Locate A,B,"H"
 G=55 → Locate A,B,"I"
 G=45 → Locate A,B,"J"
 G=35 → Locate A,B,"K"
 G=25 → Locate A,B,"L"
 G=15 → Locate A,B,"M"
 G=64 → Locate A,B,"N"
 G=54 → Locate A,B,"O"
 G=73 → Locate A,B,"P"
 G=63 → Locate A,B,"Q"
 G=53 → Locate A,B,"R"
 G=43 → Locate A,B,"S"
 G=33 → Locate A,B,"T"
 G=72 → Locate A,B,"U"
 G=62 → Locate A,B,"V"
 G=52 → Locate A,B,"W"
 G=42 → Locate A,B,"X"
 G=32 → Locate A,B,"Y"
 G=71 → Locate A,B,"Z"
 G=61 → Locate A,B,"
 G=78 → Locate A,B,"1"
 G=68 → Locate A,B,"2"
 G=58 → Locate A,B,"3"
 G=48 → Locate A,B,"4"
 G=28 → Locate A,B,"5"
 G=77 → Locate A,B,"6"
 G=67 → Locate A,B,"7"
 G=57 → Locate A,B,"8"
 G=47 → Locate A,B,"9"
 G=37 → Locate A,B,"0"
 G=79 → Locate A,B,"
 G=69 → Locate A,B,"?"
 G=59 → Locate A,B,"!"
 G=49 → Locate A,B,"/"
 G=39 → Locate A,B,"(" "
 G=29 → Locate A,B,")"
 Return

Program TYPE mem 186

For I → Z To 100
 Next
 ClrText
 {21,7} → Dim Mat T
 For I → B To 7
 For I → A To 21
 Lbl 1
 GetKey → G
 * Locate A,B,">"
 G=38 And A-2>0 → A-2→A
 G=38 → Goto 1 → G
 G=31 → prog "READ"
 G=0 → Goto 1 : prog "ABC"
 G→ Mat T[A,B]
 G=38 → Goto 1
 Next
 Next
 prog "READ"

Program READ mem 89

ClrText
 for I → B to 7
 For I → A to 21
 Mat T[A,B] → G
 G=0 → Goto 1
 prog "ABC"
 Next
 Next
 Stop
 Lbl 1
 Locate 21,7,""
 Stop

Mat T mem 1470

total mem ± 2409

* After Locate A,B,">"
 add A) I → Locate A-1,B,"."
 to encode the text
 and delete prog "ABCa"

still "backspace" error

$0 \rightarrow 2$
 $S - T \rightarrow S$
Goto 1
Lbl 2
CLS
* $S = K \Rightarrow RclPict 4$
* $S < 0 \Rightarrow RclPict 5$
 $M = 0 \Rightarrow \text{Text } 30, 52, "EASY"$
 $M = 1 \Rightarrow \text{Text } 30, 52, "Normal"$
 $M = 2 \Rightarrow \text{Text } 30, 52, "Hard"$
 $M = 3 \Rightarrow \text{Text } 30, 52, "Insane"$
Stop

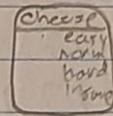
Picture 1 is a Title screen



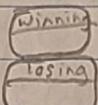
Picture 2 is the rules or story



Picture 3 is a menu



Picture 4 is a winning screen



Picture 5 is a losing screen



menu

Program 659

matrix 1470

Picture 20480

Alpha 140

Total 22749

$M = 1 \Rightarrow C \rightarrow T$

$M = 2 \Rightarrow S \rightarrow T$

$M = 3 \Rightarrow Z \rightarrow T$

$2S \rightarrow K : 1 \rightarrow X : 4 \rightarrow Y : Q - 1 \rightarrow Z : 1 \emptyset + T \rightarrow S$

C's

CirText

Lbl 1

Locate X,Y,"A"

Isz Z

X → A : X → B

GetKey → G

G = 27 ⇒ Isz X

G = 28 ⇒ Dsz Y

G = 37 ⇒ Isz Y

G = 38 ⇒ Dsz X

X > 21 ⇒ 1 → X

Y > 7 ⇒ 1 → Y

X < 1 ⇒ 21 → X

Y < 1 ⇒ 7 → Y

G ≠ 0 ⇒ Locate A,B," "

Mat A[X,Y] = 1 ⇒ Isz S

Mat A[X,Y] = 0 ⇒ Mat A[X,Y]

Locate 1,1,S

S ≥ 0 And S < 10 ⇒ Locate 2,1," "

S < 0 Or S ≥ 10 ⇒ Goto 2

Z ≠ Q ⇒ Goto 1

For I → C To 10

Int 21 Rand# + 1 → D

Int 7 Rand# + 1 → E

Locate D,E,"0"

I → Mat A[D,E]

Next

High graphics
BUBBLES

version 10.32

Coord off

Grid off

Axes off

Label off

BG - None

C15

{21,73 → Dim Mat A

* RclPict1

C15

* RclPict2

C15

* RclPict3

28 → A

Lbl 3

Text A, 52, "→"

GetKey → G

G = 0 → Goto 3

G = 31 → Goto 4

G = 28 → A - 6 → A

G = 37 → A + 6 → A

G = 28 → Text A + 6, 52, "000"

G = 37 → Text A - 6, 52, "000"

A < 28 → 28 → A

A > 46 → 46 → A

Goto 3

Lbl 4

(A - 28) = 6 → M

M = 0 → S0 → Q

M = 1 → S0 → Q

M = 2 → S0 → Q

M = 3 → S0 → Q

M = 0 → S7 → T

mem 110

1 minute timer

33

Standard graph setting for programming

ViewWindow = 1.63, 1.63, 1, -1, 1, 1

$\emptyset \rightarrow B$

Lbl I

for $I \rightarrow A$ To 180

$B=0 \Rightarrow F$ - Line $0,0, \cos A, \sin A$

$B=1 \Rightarrow F$ - Line $0,0, -\cos A, -\sin A$

Next

$B=1 \Rightarrow$ Stop

$I \rightarrow B$

Goto I

credits

mem 365

clr text

" " (+ 5)

Locate 3,3, "Concept Design and"

Locate 3,4, "Master Programmer"

Locate 3,5, " = = = (all but 2)

For 21 → A To 6 Step -1

Locate A,6, "Woody Chiodo"

next

For 1 → A To 300

next

" " (x 7)

Locate 8,3, "Software"

Locate 8,4, " = = = - - - - "

For 21 → A To 1 Step -1

Locate A,5, "Casio fx-9750G PLUS"

Locate A,6, " " Power Graphic"

next

For 1 → A To 300

next

" " (x 7)

Locate 8,4, "The End"

Stop

S-T → S

Return

win mem each 347 lose

ClrText

Locate 9,4,"Stop"

for I → A To 100

next

"I": "O" (x4)

Locate 7,4,"Game Over"

for I → A To 100

next

"O": (x7)

m=2 ⇒ Locate 1,1,"Custom"

m=3 ⇒ Locate 1,1,"Easy"

m=4 ⇒ Locate 1,9,"Normal"

m=5 ⇒ Locate 1,1,"Hard"

m=6 ⇒ Locate 1,1,"Insane"

H=1 ⇒ Locate 15,1,"Cheater"

Locate 19,7,K

Locate 7,3,"You win!"

Locate 1,5,"Try a harder level"

Locate 1,6,"Thanks for playing!"

Locate 1,7,"Try without cheatr"

stop

Custom

mem 87

ClrText

"Bubble timing"?→ Q

"Score to win"?→ K

"Score lost"?→ T

Prog" Char"

L → M

Return

Locate 1,1, "Choose a difficulty."

Locate 2,2, "Custom"

Locate 2,3, "Easy"

Locate 2,4, "Normal"

Locate 2,5, "Hard"

Locate 2,6, "Insane"

Locate 2,7, "Credits"

$m \rightarrow m$

Prog "menu"

$m \rightarrow L$

$m = 1 \Rightarrow L \rightarrow 1$

$m = 2 \Rightarrow \text{Prog} "Custom"$

$m = 3 \Rightarrow S \rightarrow Q$

$m = 4 \Rightarrow 3 \emptyset \rightarrow Q$

$m = 5 \Rightarrow 1S \rightarrow Q$

$m = 6 \Rightarrow S \rightarrow Q$

$m = 7 \Rightarrow \text{Prog} "Credits"$

$m = 3 \Rightarrow 7 \rightarrow T$

$m = 4 \Rightarrow 6 \rightarrow T$

$m = 5 \Rightarrow 5 \rightarrow T$

$m = 6 \Rightarrow 3 \rightarrow T$

$m \neq 2 \Rightarrow 2S \rightarrow K$

return

BALLS

mem 80

Int 10 Rund# + 6 $\rightarrow K$

For 1 $\rightarrow C$ TO R

Int 21 Ran# + 1 $\rightarrow D$

Int 7 Ran# + 1 $\rightarrow E$

Locate 1,9, "°" (degree)

1 $\rightarrow m$ at A[D,E]

Next

0 $\rightarrow Z$

31

If End

G = 58 \Rightarrow Prog "CHAR"

Return

CHAR

mem 147

Lbl 1

ClrText

Locate 1,1, "Choose your character."

Locate 2,2, "A"

Locate 2,3, "*"

Locate 2,4, "X"

Locate 2,5, "O"

Locate 2,6, "C"

Locate 2,7, "<"

2 \rightarrow m

(menu variable)

Prog "menu"

m = 1 \Rightarrow Goto 1

m \rightarrow 0

0 - 1 \rightarrow 2

ClrText

Return

DEOPLE

mem 111

0 = 2 \Rightarrow 0 \rightarrow 0

0 = 0 \Rightarrow Locate X,Y, "A"

0 = 3 \Rightarrow Locate X,Y, "*"

0 = 4 \Rightarrow Locate X,Y, "X"

0 = 5 \Rightarrow Locate X,Y, "O"

0 = 6 \Rightarrow Locate X,Y, "C"

0 = 7 \Rightarrow Locate X,Y, "<"

Return

CHOOSE

mem 208

Lbl 1

ClrText

mem 384

CHEATS

$I \rightarrow H$

$G = 78 \Rightarrow 0 \rightarrow Z$

$G = 77 \Rightarrow Q-1 \rightarrow Z$

$G = 79 \Rightarrow S+3 \rightarrow S$

$G = 69 \Rightarrow \text{Int } 21 \text{ Rand } \# + 1 \rightarrow X$

$G = 69 \Rightarrow \text{Int } 7 \text{ Rand } \# + 1 \rightarrow Y$

If $G = 68$

Then fill (1, mat A)

for $I \rightarrow V$ To 7

Locate 1,V,"0000000 ... full line

next

Else If $G = 67$

Then fill (0, mat A)

for $I \rightarrow V$ To 7

Locate 1,V,"00 ... full line

next

Else If $G = 59$

Then Lbl 1

ClrText

"P"

Locate 1,1,"Time between bubbles"

"KX<1000"? → Q

Error $G < 1$ or $Q > 100$ or frac $Q \neq 0$ = Goto 1

ClrText

Else If $G = 57$

Then Lbl 2

ClrText

"P"

Locate 1,1,"Points to win"

"KX<1000"? → K

Error $K < 1$ or $K > 100$ or frac $K \neq 0$ = Goto 2

ClrText

APPROX
total mem
4293

mem 351

30

- write a little BUBBLES version 2.3

- clear and optimize all settings

using another program

{21, 7} → Dim Mat A

- Brief the Rules in another program

Prog "CHOOSE"

C\rtext

$I \rightarrow X : 4 \rightarrow Y : Q-1 \rightarrow Z : T \rightarrow S$

Lbl 1

Prog "PEOPLE"

T_{Sz} Z

X → A : Y → B

GetKey → G

G = 27 ⇒ ISz X

G = 28 ⇒ DSz Y

G = 37 ⇒ ISz Y

G = 38 ⇒ DSz X

G ≠ Ø And G ≠ 27 And G ≠ 28 And G ≠ 37

And G ≠ 38 ⇒ Prog "CHEATS"

X > 21 ⇒ I → X

Y < 1 ⇒ T → Y

Y > 7 ⇒ I → Y

X < 1 ⇒ 21 → X

G ≠ Ø ⇒ Locate A, B, "■"

Mat A[X, Y] = 1 ⇒ ISz S

Mat A[Y, X] = 1 ⇒ Ø → Mat A[X, Y]

Locate 1, 1, S

S ≠ Ø And S < 1 Ø ⇒ Locate 2, 1, "■"

S > -10 And S ≤ -1 ⇒ Locate 3, 1, "■"

S ≥ K ⇒ Prog "WIN"

S ≤ -K ⇒ Prog "LOSE"

Z = Q ⇒ Prog "BALLS"

Goto 1