

Line #

Statement(s)

Comments

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10 H=0;C=0
20 PRINT "DO YOU WANT TO CHOS
   F LIMIT"
25 PRINT "(1)-YES NO-ANY NU
   MBER"
30 INPUT " " L
40 IF L#1 GOTO 100
50 PRINT "# OF OBJECTS IN P I L
   E?"
60 INPUT " " N
70 PRINT "MAX # THAT CAN BE T
   AKEN."
80 INPUT " " K
90 GOTO 120
100 N=20+RND (80)
110 K=5+RND (10)
120 CLEAR;PRINT "BATTLE OF THE
   NUMBERS."
125 PRINT
130 PRINT "# OF OBJECTS IN
   FILE=",#1,N
135 PRINT
140 PRINT "REMOVE 1 TO ",#1,K,
   #1," OBJECTS";PRINT
150 PRINT "PLAYER WHO TAKES
   LAST"
155 PRINT "OBJECT LOSES."
156 PRINT "PUSH GO WHEN READY."
160 IF KP>0 GOTO 170
170 CLEAR;PRINT "YOUR MOVE"

```

USE OF SHADED AREA IS FOR 2ND OR MORE LINES OF MULTI-LINE STATEMENTS

DO NOT ENTER A SPACE BETWEEN LINE # AND STATEMENT, THIS IS DONE BY THE UNIT

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180 INPUT "X

190 IF X > K GOTO 220

200 IF X < 1 GOTO 220

210 IF X < K GOTO 250

220 PRINT "ILLEGAL MOVE!"

230 PRINT

240 GOTO 170

250

260 N = N - X

270 IF N > 0 GOTO 350

280 PRINT "***COMPUTER WINS***"

285 C = C + 1

290 PRINT ; PRINT "COMPUTER'S SCORE=" ; #1 ; C

295 PRINT ; PRINT "YOUR SCORE=" ; #1 ; H

296 PRINT

300

305

310

320

330 PRINT "NEW GAME."

340 GOTO 20

350

360 $Q = (N - 1) \div (K + 1)$ 370 $Y = N - 1 - (Q \times (K + 1))$

380 IF Y = 0 GOTO 460

390 N = N - Y

400 PRINT "COMPUTER'S MOVE=" ; #1 ; Y

410 IF N = 0 GOTO 520

420 PRINT "OBJECTS LEFT=" ; #1 ; N

425 IF N = 1 GOTO 280

430 FOR L = 1 TO 400

440 NEXT L

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PROGRAM NAME

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450 GOTO 170

460 .

470 IF N>1 GOTO 500

480 Y=1 L=1 TO 900

490 GOTO 390

500 Y= RND (K)

510 GOTO 390

520 PRINT "XXX YOU WIN! XXX"

525 H=H+1

530 GOTO 290

540 PRINT "END"

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