

4201 BIRCHWOOD CRESCENT  
BURNABY B.C. V5C 4E6  
CANADA.

AUGUST 12 1980

ARCADIAN  
ROBERT FABRIS  
3626 MORRIS DRIVE  
SAN JOSE, CA 95127

Dear Sir;

enclosed please find source listings for three simple programmes. Two are converted from Digital's "101 BASIC COMPUTER GAMES" and one is an enhancement of Bally's Lunar Lander. These programmes were done shortly after I purchased my Bally and before I subscribed to your news letter. They are rather simple and can be cleaned-up and improved, however I thought I may as well send them to you away.

Incidentally I did not receive your "VOL 2 NO 8" after I subscribed. ~~I returned~~ VOL 2 NOS 1-7 is one mailing and just received NO 9, is it possible to receive this?

Your news letter is very good and I am amazed at the amount of research, both hardware and software, that is being performed by Bally users.

Sincerely,  
Stan W. Henz  
STAN W HENZ

NICOMACHUS

(APRIL 1980)

- 095 to END (C12 SIDE 1)

```

8  BC = 22 ; FC = 0 ; NT = 0
9  CLEAR ; PRINT ; PRINT ; PRINT
10 PRINT "BY BOOMERANGS PUZZLE FROM"
20 PRINT "BY ARITHMETICA OF"
30 PRINT "BY NICOMACHUS - - A.D. 90!"
31  FOR L = 1 TO 1000
32  NEXT L
33  CLEAR
34  PRINT "PLEASE THINK OF A NUMBER"
35  PRINT "BETWEEN 1 AND 100"
40  PRINT ; PRINT "YOUR NUMBER DIVIDED BY 3 HAS A
REMAINDER OF? :"
45  INPUT A
50  PRINT ; PRINT "YOUR NUMBER DIVIDED BY 5 HAS A
REMAINDER OF? :"
55  INPUT B
60  PRINT ; PRINT "YOUR NUMBER DIVIDED BY 7 HAS A
REMAINDER OF? :"
65  INPUT C
70  CLEAR ; PRINT ; PRINT ; PRINT
80  PRINT "LET ME THINK A MOMENT....."
90  FOR h = 1 TO 1500 ; NEXT L
100 D = 70 * A + 21 * B + 15 * C
110 IF D < 105 GO TO 140
110 IF D = 105 GO TO 140
120 D = D - 105
130 GOTO 110
140 PRINT ; PRINT
150 PRINT "YOUR NUMBER WAS" D
155 PRINT "BY RIGHT?"
160 INPUT E

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165 IF E = 1 GOTO 220  
170 IF E = 4 GOTO 240  
180 IF E # 1 IF E # 4 GOTO 190  
190 PRINT "WHY EH? WHY I DON'T UNDERSTAND"  
195 PRINT "WHY TRY 'YES' OR 'NO'"  
200 GOTO 150  
220 PRINT "WHY HOW ABOUT THAT!!"  
230 GOTO 250  
240 PRINT "WHY I FEEL YOUR ARITHMETIC IS WAY TOO  
10 ERROR!"  
250 PRINT ; PRINT  
260 PRINT "WHY LETS TRY ANOTHER"  
270 GOTO 33

~ END ~

BATNUM

(APRIL 1980)

- 010 to 085 (C12 SIDE 1)

```

1. +0 } lead-in
2. 5  }
8.    }
9 PRINT SZ
100 CLEAR
102 PRINT; PRINT; PRINT
103 PRINT; PRINT "BBBBBBBBBATNUM"
104 PRINT; PRINT "BBBBBBAPRIL 1980"
105 FOR D = 1 TO 1500
106 NEXT D
204 BC = 144; FC = 4
205 CLEAR
210 GOTO 330
220 FOR I = 1 TO 10
225 NT = 3
230 PRINT
240 NEXT I
330 PRINT "ENTER PILE SIZE:"
340 INPUT N
350 IF N # 0 GOTO 380
360 GOTO 330
380 IF N < 1 GOTO 220
390 PRINT "ENTER WIN OPTION:"
391 PRINT "BBBBB 1 TO TAKE LAST:"
392 PRINT "BBBBB 2 TO AVOID LAST:"
400 INPUT M
410 IF M = 1 GOTO 430
420 IF M # 2 GOTO 390
430 IF M = 0 GOTO 390
430 PRINT "ENTER MIN AND MAX:"
440 INPUT A

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441 INPUT B
450 IF A > B GOTO 430
460 IF A < 1 GOTO 430
490 PRINT "ENTER START OPTION : "
491 PRINT "HHHHH 1 COMPUTER FIRST : "
492 PRINT "HHHHH 2 YOU FIRST : "
500 INPUT S
505 NT = 0
510 IF S = 1 GOTO 530
520 IF S # 2 GOTO 490
530 C = A + B
540 IF S = 2 GOTO 570
550 GOSUB 600
560 IF W = 1 GOTO 220
570 GOSUB 810
580 IF W = 1 GOTO 220
590 GOTO 550
600 Q = N
610 IF M = 1 GOTO 630
620 Q = Q - 1
630 IF M = 1 GOTO 680
640 IF N > A GOTO 720
650 W = 1
655 PRINT "COMPUTER TAKES", N
660 PRINT "COMPUTER TAKES", N, "AND LOSES"
670 RETURN
680 IF N > B GOTO 720
690 W = 1
700 PRINT "COMPUTER TAKES", N, "AND WINS!"
710 RETURN
720 P = Q - C * (Q ÷ C)
730 IF P > A GOTO 750
731 IF P = A GOTO 750
740 P = A

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## BATNUM (CONTINUED)

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750 IF P < B GOTO 770
751 IF P = B GOTO 770
760 P = B
770 N = N - P
780 PRINT " COMPUTER TAKES ", P
781 PRINT " WHY? AND LEAVES ", N
790 W = 0
800 RETURN
810 PRINT " YOUR MOVE : "
820 INPUT P
830 IF P # 0 GOTO 880
840 PRINT " I TOLD YOU NOT TO USE ZERO COMPUTER
      WINS BY FORFEIT! "
850 W = 1
860 RETURN
880 IF P > A GOTO 910
881 IF P = A GOTO 910
890 IF P = D GOTO 960
900 GOTO 920
910 IF P < B GOTO 940
911 IF P = B GOTO 940
920 PRINT " ILLEGAL MOVE, REENTER IT "
930 GOTO 820
940 N = N - P
950 IF N # 0 GOTO 1030
960 IF M = 1 GOTO 1000
970 PRINT " TIGHT LUCK, YOU LOSE! "
980 W = 1
990 RETURN
1000 PRINT " CONGRATULATIONS, YOU WIN! "
1010 W = 1
1020 RETURN

```

1030 IF  $N > 0$  GOTO 1060  
1031 IF  $N = 0$  GOTO 1060  
1040  $N = N + P$   
1050 GOTO 920  
1060  $W = 0$   
1070 RETURN

~ EWD ~

# LUNAR LANDER TWO

MAY 1980

(C12 SIDE TWO 010 to 065)  
(1 of 3)

```

5.
6.
7.
8.
9.
10 CLEAR; NT = 0
20 PRINT SZ
30 FOR A = 1 TO 500
40 NEXT A
50 CLEAR
60 PRINT; PRINT; PRINT; PRINT; PRINT "BBBBB LUNAR LANDER TWO"
70 PRINT "BBBBBBBBB MAY 1980"
80 FOR A = 1 TO 1250
90 NEXT A
100 CLEAR
200 T = 0; M = 0
210 &(23) = 255
220 BC = 0; FC = 126
240 LINE -8, 43, 4
250 LINE 78, 43, 1
260 LINE 78, 23, 1
270 LINE -8, 23, 1
280 LINE -8, 43, 1
290 CX = 0; CY = 38
295 PRINT "FUEL * ATT * SPD"
300 FOR A = -80 TO 80
310 T = T + RND(4) - 3
320 IF T < 0 T = 0
330 LINE A, -44, 0
340 LINE A, T - 44, 1
350 NEXT A
360 FOR A = 1 TO 51
370 BOX RND(160) - 80, RND(88) - 44, 1, 1, 1
380 NEXT A
420 G = 0
430 F = 30
440 X = RND(80) - 80
    
```

position to start horizon

hills on horizon

plot star effect



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450 Y = 43
460 BOX X, 4, 3, 3, 3
461 BOX X, 4+2, 1, 1, 3
465 IF U BOX X, 4-2, 1, 3, 3
500 .MORE
504 BOX X, 4, 3, 3, 3
505 BOX X, 4+2, 1, 1, 3
506 IF U BOX X, 4-2, 1, 3, 3
508 IF F > 0 U = TR(1)
509 IF F < 1 U = 0
510 IF U &(21) = 255
512 IF U = 0 &(21) = 0
518 G = G + 8 - 20 * U
520 Y = Y - G ÷ 25
525 IF Y < -42 GOTO 600
527 H = H + 5 * X(1)
530 X = X + M
532 IF F < 1 U = 0; GOTO 1040 out of fuel crash routine
533 IF U = 1 F = F - 1
535 BOX X, 4, 3, 3, 3
540 BOX X, 4+2, 1, 1, 3
550 IF U BOX X, 4-2, 1, 3, 3 rocket blast display
560 CX = 0; CY = 30
570 PRINT #4, F, #4, Y+42, #4, -G ÷ 10
580 GOTO 500
590 .LAND
600 Y = -42; IF Y = -42 IF -G ÷ 10 < -3 GOTO 1140
615 CX = 0
616 CY = 30
617 PRINT #4, F, #4, Y+42, #4, -G ÷ 10
620 &(21) = 0 rocket landed turn off engine
630 BOX X, 4, 3, 3, 3
640 BOX X, 4+2, 1, 1, 3
650 IF U BOX X, 4-2, 1, 3, 3
1000 GOTO 1220
1005 CY = -32
1006 PRINT "444 26 spaces 44")

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(3 of 3)

```
1007 C4 = -32; C4 = -32
1008 PRINT "ENTER 1 TO PLAY AGAIN"
1010 IF 8(23) = 8 GOTO 100
1020 IF 8(23) # 8 GOTO 1005
1040 CLEAR
1050 PRINT; PRINT
1060 PRINT "444 ALERT: 44 OUT OF FUEL!"
1061 NT = 3
1062 FOR A = 1 TO 100
1063 MU = 25
1064 MU = 75
1065 NEXT A
1066 NT = 0; CLEAR
1067 PRINT; PRINT; PRINT
1070 PRINT; PRINT; PRINT
1080 PRINT "4444 YOU HAVE JUST BEEN "
1090 PRINT "44 CONVERTED TO A BLOB OF "
1100 PRINT "444 QUIVERING PROTOPLASM "
1110 FOR A = 1 TO 1250
1120 NEXT A
1130 PRINT; PRINT; PRINT; GOTO 1005
1140 PRINT; PRINT; PRINT; 8(21) = 0
1150 PRINT "44444 CRASH !!!!!!!"
1160 B = RND(99)
1170 PRINT "YOUR IMPACT CREATED A "
1180 PRINT "CRATER", B, "METRES DEEP"
1190 FOR A = 1 TO 1250
1200 NEXT A
1210 PRINT; PRINT; PRINT; GOTO 1005
1220 PRINT; PRINT; PRINT
1230 PRINT "4444444444 LANDED"
1240 FOR W = 55 TO 65; MU = W
1250 NEXT W; NEXT 2; NT = 0
1260 PRINT; PRINT; PRINT
1270 GOTO 1005
1280 .END
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1005 to 1008 performs a message strobe effect

warning klaxon sound