NATIONAL IMAGINATION COMPUTER CLUB

1982   OCT. - 1 1982

First, we have gotten several complaints/problems with the
programs published in the newsletters. They are all printed
directly from the APF computer after we have run the programs
to insure they work. Hard as it may be to believe, those of
you who are having problems need to recheck you input. Next,
we have been told there are no back issues available.

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ANSWERS/TIPS/QUESTIONS FROM OTHER CLUB MEMBERS

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FROM G. TAYLOR OF MUSCLE SHOALS, ALABAMA

Radio Shack book #62-2015, "Computer Programming in Basic for
Everyone" has programs that, with minor changes, will load
into the IM-1.

FROM and TO DAN FERGUSON OF LORTON, VA

1) His tip - Dim A$(49,8) allocates space for 50 instances of
the string A$ which is 8 characters long. When A$ is referenced
in programs like A$(n) as in other dialects of basic, it doesn't
work, you will get ILLEGAL VARIABLE message. You must reference
it as A$(N,0). Mr. Ferguson states this is not referenced in
any APF documentation he has seen.

2) Q - Shouldn't I be able to place several IF THENS on the
        same line?

    A - No, because the first time it finds the condition untrue
        the program continues on to the next line. This cannot
        be done on other computers either.

3) Tip - The following manual is available from the
        of the IM-1 chip - "6800 PROGRAMMING REFERENCE MANUAL"
        M68PRM(D) Send $3.00 to Motorola Semi-Conductor
        products, Box 20912, Phoenix, AZ   85036

4) Documentation for using peripherals with the IM-1 does come
   with the peripheral, such as the Disk Drive, RS232 port,
   etc. In the case of a printer, the information available
   with the RS232 as well as information standard to the
   computer is needed. There is no one book on a printer with
   the IM-1 since everyone uses different printers. You may
   need to change pin configuration on the printer. We will
   publish a short section on hardware/software required in the
   next newsletter.

TO J. H. SCHARFELD OF HOLLYWOOD, FLORIDA

1) Q - Is there anyway to force the machine to start a sequence
      (of random numbers) at a different spot each running?
   A - Yes, your line was almost correct, all we did was move
      your 36 as follows:

      10X=INT(RND(1)*36))

2) Q - Is there anyway to use a variable in a music command?
   A - We have tried and cannot do it, is there any other club
      member that possibly has accomplished this and could
      let us know?

3) Q - In trying to work out an amortization program -
      everything works but the   -N*Y.
   A - We have received several letters regarding the
      difficulty of writing an amortization program - it
      appears to us that the IM-1 has a problem with negative
      expontential, if anyone knows the real reason, please
      let us know. We have published several amortization
      programs - HOME LOAN BALANCE - September issue and
      AMORTIZATION SCHEDULE - July/August issue.

TO J. CLATFELTER OF CALIFORNIA

1. Q - Is there a way I can program the IM-1 to print
      characters of a foreign alphabet?
   A - No, not in letter size, you can go in a draw them in the
      graphics mode, however, the will be a little larger.
2. Q - Can I use the port inthe back of the computer to connect
      the printer without having to use the Building Block
      interface?
   A - We do not believe you can, not only do you require the
      building block but also the RS232 to connect a printer.
      The port in the computer is not compatible with this.

FROM ONSY I. YOUSEF OF CHESTNUT HILL, MA

Mr. Yousef is interested in obtaining an APF SERVICE MANUAL
which are sold out, is any club member willing to sell
his/her copy, swap it toward an APF PROGRAMMING & TECHNICAL
ASSISTANCE MANUAL, or even lend him a copy?

FROM M. B. SOUZA OF SOMERSET, MASSACHUSETTS

Does anyone know of a way he could use the Commodore Pet with
the APF machine? He has a 32k PET with either "old" or
"upgrade" Roms.

FROM STEVE KAIFESH OF CALUMET, MICHIGAN

1)   Q - When I do cload or csave, is the audio on the cassette
         supposed to shut off when the operation is over?
     A - No, normally, it will continue to run.

2)   Q - Is there supposed to be alot of humming and static with
         a csave or cload?
     A - We have found there to be with ours, yes.

****

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****

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PROGRAMS FROM OTHER CLUB MEMBERS

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        STAR TRECK
                    .............from STEPHEN STRUNK OF VIRGINIA
     '
3   POKE 24578,54
4   CALL 17046
5   PRINT "        ** S T A R   T R E K **"
6   PRINT : PRINT : PRINT : PRINT : PRINT
10  S4=1
20   DIM I(25)
30   PRINT "DO YOU WANT INSTRUCTIONS (YES OR NO)";
35   DIM A$(3)
40   INPUT A$
50   IF A$="NO" THEN 342
60   IF A$="NO" THEN 342
70  Q=67
75   CALL 17046
80   PRINT "WHILE ON PATROL NEAR TRISKELLION-7...   THE USS ENTERPRIZE IS CONFRONT
ED BY"
95   PRINT " A   K L I N G O N    B A T T L E          C R U I S E R"
120   PRINT  TAB (10);" WEAPONRY"
140   PRINT "2 FORWARD PHASER BANKS, RANGE:    300,000 KM."
150   PRINT "1 REAR PHASER, RANGE: SAME"
180   PRINT "2 FORWARD PHOTON TORPEDO BANKS, RANGE 20,000 TO 600,000 KM."
200   PRINT "1 REAR PHOTON TORPEDO BANK, RANGE: SAME"
210   PRINT "FOR MORE INSTRUCTIONS,HIT (G)"
220   DIM B$(1)
230 B$= KEY$ (0): IF B$<>"G" THEN 230
231   CALL 17046
232   PRINT  TAB (5);"M A N E U V E R S "
233   PRINT
250   PRINT "1-FIRE FORWARD PHASERS"
260   PRINT "2-FIRE REAR PHASER"
270   PRINT "3-FIRE FORWARD PHOTON TORPEDO"
280   PRINT "4-FIRE REAR PHOTON TORPEDO"
290   PRINT "5-ACTIVATE AUTO DISTRUCT"
300   PRINT "6-SURRENDER"
310   PRINT "7-ATTEMPT TO BREAK CONTACT GO     INTO WARP DRIVE!"
320   PRINT "8-MOVE CLOSER TO THE KLINGON"
329   PRINT
330   PRINT "ALL VECTOR HEADINGS WILL BE BE- TWEEN 0 AND 180 DEGREES."
340   DIM B$(1)
341 B$= KEY$ (0): IF B$<>"G" THEN 341
342   CALL 17046
350   PRINT "       KLINGON COMING INTO RANGE--SHIELDS ON!"
360   READ R,H,P,X,A
370   DATA 85000.,0,0,-1,97.3304
470 B= RND (X)
490   GOSUB 1370
```

```
500   PRINT "THE RANGE=";R;" KM,  AT A VECTOR HEADING OF ";A;" DEGREES"
510   GOSUB 620
520   IF H>8 THEN 2560
530   IF E=6 GOTO 2700
540   IF E=5 GOTO 2610
550   IF R>600000 THEN 2690
560   GOSUB 1100
570   IF P>8 GOTO 2610
580   IF K=7 GOTO 500
590   GOTO 490
620  W=2
630   PRINT "WHAT IS YOUR MOVE";
640   INPUT E
650   GOSUB 1490
660   IF Q>0 THEN 630
670   ON E GOTO 680,790,810,850,900,940,980,1030
680   IF A>90 THEN 730
690  B= RND (X)
700   IF B>.2 GOTO 770
710   PRINT "COMPLETE MISS, YOUR AIM IS OFF"
720   RETURN
730   PRINT "MISS, INCORRECT VECTOR ANGLE"
740   PRINT " REMEMBER THAT BETWEEN 0 AND 90 DEGREES IS FORWARD"
750   PRINT " AND THAT BETWEEN 90 AND 180 IS REARWARD"
760   RETURN
770   GOSUB 2000
780   RETURN
790   IF A<90 THEN 730
800   IF B>.4 GOTO 770
805   GOTO 710
810   IF A>90 THEN 730
820  B= RND (X)
830   IF B>.1 GOTO 770
840   GOTO 710
850   IF A<90 THEN 730
860  B= RND (X)
870   IF B>.2 GOTO 770
880   GOTO 710
900   PRINT  TAB (8);"A C T I V A T E D"
920   PRINT "10  9  8  7  6  5  4  3  2  1  0"
930   RETURN
940   PRINT "ON BEHALF OF THE KLINGON EMPIRE, I ACCEPT YOUR SURRENDER."
960   PRINT  TAB (10);"PREPARE TO BE BOARDED"
970   RETURN
980  R=R+(200000.* RND (X))
990   IF R<600000 THEN 1010
1000   RETURN
1010   PRINT "CONTACT NOT BROKEN, NEW DISTANCE=",R," KM."
1020   RETURN
1030   IF R<200000. THEN 1060
1040  R=R-200000.* RND (X)
1050   RETURN
1060  R=R/2
1070   RETURN                          PAGE5
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```
1100 W=1
1110 K= INT ((7* RND (X))+1)
1120  GOSUB 1490
1130  IF N>0 THEN 1110
1140  ON K GOTO 1150,1150,1180,1180,1180,1230,1290
1150  PRINT "KLINGON FIRES PHOTON TORPEDO"
1160  GOSUB 2000
1170  RETURN
1180  PRINT "KLINGON FIRES PHASERS AT ENTER- PRISE."
1190  LET B= RND (X)
1200  IF B>.2 THEN 1160
1210  PRINT "YOU OUTMANEUVERED HIM, MISS."
1220  RETURN
1230  PRINT "KLINGON ATTEMPTING TO BREAK CONTACT...";
1240 R=R+(200000.* RND (X))
1250  IF R<600000 THEN 1270
1260  RETURN
1270  PRINT "CONTACT NOT BROKEN"
1280  RETURN
1290  PRINT "KLINGON APPROACHING"
1300  IF R<200000. THEN 1330
1310 R=R-200000.* RND (X)
1320  RETURN
1330 R=R/2
1340  RETURN
1370 B= RND (X)
1380  IF B>.5 THEN 1410
1390 R=R+(10000* RND (X))
1400  GOTO 1420
1410 R= ABS (R-(10000* RND (X)))
1420 A=A+(100* RND (X))
1430  IF A>180 THEN 1450
1440  RETURN
1450 A=A-180
1460  GOTO 1430
1490  IF W=1 THEN 1750
1500  IF E<5 THEN 1530
1510 Q=0
1520  RETURN
1530  IF E<3 THEN 1700
1540  IF R>600000. THEN 1590
1550  IF D=5 THEN 1650
1560  IF R<20000. THEN 1590
1570 Q=0
1580  RETURN
1590  PRINT "THE RANGE OF A PHOTON TORPEDO IS 20,000 TO 600,000 KM."
1600  GOTO 1670
1610  PRINT "YOUR PHASERS HAVE BEEN DESTROYED ALREADY!"
1620  GOTO 1670
1630  PRINT "THE RANGE OF A PHASER IS 300,000 KM."
1640  GOTO 1670
1650  PRINT "YOUR WEAPONS HAVE BEEN DESTROYED ALREADY"
1660  GOTO 1670
```

```
1670   PRINT "MOVE IMPOSSIBLE, TRY AGAIN"
1680   Q=1
1690   RETURN
1700   IF R>300000. THEN 1630
1710   IF D=4 THEN 1610
1720   IF D=5 THEN 1650
1730   Q=0
1740   RETURN
1750   IF K>5 THEN 1880
1760   IF K>2 THEN 1840
1770   IF R>600000. THEN 1820
1780   IF R<20000. THEN 1820
1790   IF H>7 THEN 1820
1800   N=0
1810   RETURN
1820   N=1
1830   RETURN
1840   IF R>300000. THEN 1820
1850   IF H>6 THEN 1820
1860   N=0
1870   RETURN
1880   IF P>H+1 THEN 1950
1890   IF P<H-1 THEN 1920
1900   N=0
1910   RETURN
1920   IF K=7 THEN 1820
1930   N=0
1940   RETURN
1950   IF K=6 THEN 1820
1960   N=0
1970   RETURN
2000   B= RND (X)
2010   IF B>.75 THEN 2120
2020   IF B>.1 GOTO 2050
2030   PRINT "NEAR MISS"
2040   RETURN
2050   IF W=1 THEN 2085
2060   PRINT "HIT ON KLINGON BATTLE CRUISER"
2070   H=H+1
2080   GOTO 2380
2085   IF B<.4 GOTO 2030
2090   PRINT "HIT ON THE USS ENTERPRISE,"
2091   PRINT "DAMAGE REPORT-"
2100   P=P+1
2110   GOTO 2180
2120   IF W=1 THEN 2160
2130   PRINT "DIRECT HIT ON KLINGON VESSEL, DAMAGE REPORT-"
2140   H=H+2
2150   GOTO 2380
2160   PRINT "DIRECT HIT ON ENTERPRISE, DAMAGE REPORT-"
2170   P=P+2
2180   IF P<9 THEN 2210
```

```
2190 D=1
2200  RETURN
2210  IF P=6 THEN 2290
2220  IF P=7 THEN 2310
2230  IF P=8 THEN 2340
2240  IF P>3 THEN 2270
2250  PRINT "SHIELDS HOLDING - NO DAMAGE"
2260  RETURN
2270  PRINT "SHIELDS WEAKENING - MINOR DAMAGE IN MIDSHIPS"
2280  RETURN
2290  PRINT "ALL SHIELDS DESTROYED - DAMAGE TO OUTER HULL"
2300  RETURN
2310 D=4
2320  PRINT "PHASERS DEACTIVATED - DILITHIUM CRYSTALS OVERHEATING"
2330  RETURN
2340 D=5
2350  PRINT "ALL WEAPONS DESTROYED - POWER DROPPING"
2360  PRINT "MAJOR DAMAGE TO WARP ENGINES"
2370  RETURN
2380  IF H<9 THEN 2410
2390 D=8
2400  RETURN
2410  IF H=8 THEN 2530
2420  IF H=7 THEN 2510
2430  IF H=6 THEN 2490
2440  IF H>3 THEN 2470
2450  PRINT "SHIELDS HOLDING - NO DAMAGE"
2460  RETURN
2470  PRINT "SHIELDS WEAKENING - MINOR DAMAGE"
2480  RETURN
2490  PRINT "ALL SHIELDS DESTROYED - HULL DAMAGE"
2500  RETURN
2510  PRINT "PHASER BANKS DESTROYED - MAJOR DAMAGE FORE AND AFT"
2520  RETURN
2530 D=7
2540  PRINT "ALL WEAPONS ON KLINGON VESSEL DEACTIVATED, POWER DROPPING"
2550  RETURN
2560  PRINT  TAB (3);"C O N G R A T U L A T I O N S"
2570  PRINT
2580  PRINT "KLINGON VESSEL DESTROYED"
2590  PRINT
2600  GOTO 2700
2610  PRINT  TAB (7);"ENTERPRISE DESTROYED"
2620  PRINT
2630  IF E=5 THEN 2650
2640 D=1000* RND (X): GOTO 2660
2650 D=100000.* RND (X)
2660  PRINT "     RADIUS OF MATTER-ANTIMATTER EXPLOSION=";D;" KM."
2670  IF R<D THEN 2580
2680  GOTO 2700
2690  PRINT "CONTACT BROKEN, RETURN TO BASE"
2700  PRINT "AGAIN (YES OR NO)";
2705  GOTO 2760
```

```
2710   PRINT " STAR FLEET HAS DETERMINED THAT YOU ARE TOO BLOOD-THIRSTY."
2720   PRINT " THEREFORE, IT HAS BEEN DECIDED THAT YOU WILL NOT BE ALLOWED"
2730   PRINT "TO CONTINUE ON THIS RAMPAGE OF"
2740   PRINT "KILLING POOR LITTLE DEFENSELESS"
2741   PRINT "KLINGONS!"
2742   PRINT  TAB (10);"ADMIRAL WESTLAKE,"
2750   PRINT "            STAR FLEET COMMAND"
2751   GOTO 2820
2760   INPUT A$
2770   RESTORE
2780   IF S4>=4 THEN 2710
2790   IF A$="YES" THEN 2810
2800   IF A$<>"YES" THEN 2820
2810  S4=S4+1
2811   GOTO 350
2820   PRINT ""
2830   END
```

****

SQUARE ROOT
                ....from PAUL SCHNEIDER OF ILLINOIS

```
10   INPUT "NUMBER WHOSE SQUAREROOT YOU WANT",N
20   INPUT "YOUR GUESS ",A
30  B=(A^2+N)/(2*A)
40   IF B=A THEN  GOTO 70
50  A=B
60   GOTO 30
70   PRINT "THE SQUAREROOT OF ";N;" IS ";B
```

****

CUBE ROOT
                ....also from PAUL SCHNEIDER OF ILLINOIS

```
10   INPUT "NUMBER WHOSE CUBE ROOT YOU WANT",N
20   INPUT "YOUR GUESS",A
30  B=(A*A*A*2+N)/(A*A*3)
40   IF B=A THEN  GOTO 70
50  A=B
60   GOTO 30
70   PRINT "THE CUBE ROOT OF ";N;" IS ";B
```

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