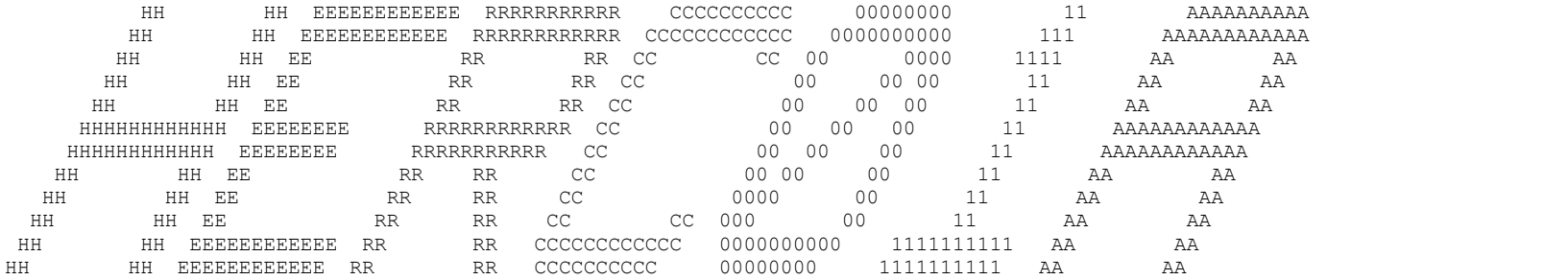


****A START JOB 499 HERC01A ROOM 10.16.19 AM 10 SEP 17 PRINTER1 SYS BSP1 JOB 499 START A****
****A START JOB 499 HERC01A ROOM 10.16.19 AM 10 SEP 17 PRINTER1 SYS BSP1 JOB 499 START A****
****A START JOB 499 HERC01A ROOM 10.16.19 AM 10 SEP 17 PRINTER1 SYS BSP1 JOB 499 START A****
****A START JOB 499 HERC01A ROOM 10.16.19 AM 10 SEP 17 PRINTER1 SYS BSP1 JOB 499 START A****

J E S 2 J O B L O G

```
10.16.19 JOB  499  $HASP373 HERC01A  STARTED - INIT  1 - CLASS A - SYS BSP1
10.16.19 JOB  499  IEF403I HERC01A - STARTED - TIME=10.16.19
10.16.19 JOB  499  IEFACTRT - Stepname  Procstep  Program   Retcode
10.16.19 JOB  499  HERC01A    BASIC360            BASIC360  RC= 0000
10.16.19 JOB  499  IEF404I HERC01A - ENDED - TIME=10.16.19
10.16.19 JOB  499  $HASP395 HERC01A  ENDED


------ JES2 JOB STATISTICS ------


 10 SEP 17 JOB EXECUTION DATE


         8 CARDS READ


       639 SYSOUT PRINT RECORDS


         0 SYSOUT PUNCH RECORDS


      0.00 MINUTES EXECUTION TIME
```

```
1     //HERC01A JOB 'ME',MSGCLASS=A,MSGLEVEL=(1,1)                          JOB  499
2     //BASIC360 EXEC PGM=BASIC360                                          00020000
3     //STEPLIB  DD  DSN=HERC01.BASIC360.LOADLIB,DISP=SHR                   00030000
4     //         DD  DSN=SYS1.PL1LIB,DISP=SHR                               00040000
5     //SYSPRINT DD  SYSOUT=A                                               00050000
      ***RENUMFL  DD  SYSOUT=C,  THIS DD NEEDED ONLY IF ++RENUM IS USED    00060000
      ***         DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)                     00070000
6     //SYSIN    DD  DSN=HERC01.BASIC360.PLI($SAMPLES),DISP=SHR           00080000
```

```
IEF236I ALLOC. FOR HERC01A BASIC360
IEF237I 240  ALLOCATED TO STEPLIB
IEF237I 148  ALLOCATED TO
IEF237I 240  ALLOCATED TO SYS00028
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 240  ALLOCATED TO SYSIN
IEF142I HERC01A BASIC360 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   HERC01.BASIC360.LOADLIB                     KEPT          *--------0
IEF285I   VOL SER NOS= PUB000.
IEF285I   SYS1.PL1LIB                                 KEPT          *--------0
IEF285I   VOL SER NOS= MVSRES.
IEF285I   SYS1.UCAT.TSO                               KEPT          *--------0
IEF285I   VOL SER NOS= PUB000.
IEF285I   JES2.JOB00499.SO0101                        SYSOUT
IEF285I   HERC01.BASIC360.PLI                         KEPT          *-------46
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /BASIC360/ START 17253.1016
IEF374I STEP /BASIC360/ STOP  17253.1016 CPU    0MIN 00.07SEC SRB    0MIN 00.01SEC VIRT   192K SYS   188K
*************************************************************************************************************************
*     1. Jobstep of job: HERC01A     Stepname: BASIC360    Program name: BASIC360   Executed on 10.09.17 from 10.16.19 to 10.16.19 *
*         elapsed time  24:00:00,11                     CPU-Identifier:  BSP1           Page-in:      0                          *
*             CPU time  00:00:00,08               Virtual Storage used:    192K         Page-out:      0                          *
*           corr. CPU:  00:00:00,08   CPU time has been corrected by  1 / 1,0  multiplier                                        *
*                                                                                                                               *
*     I/O Operation                                                                                                             *
*     Number of records read via DD * or DD DATA:      0                                                                        *
*     240.......0 148.......0 240.......0 DMY.......0 240......46                                                               *
*                                                                                                                               *
*                                        Charge for step (w/o SYSOUT):          0,13                                        *
*************************************************************************************************************************
IEF375I  JOB /HERC01A / START 17253.1016
IEF376I  JOB /HERC01A / STOP  17253.1016 CPU    0MIN 00.07SEC SRB    0MIN 00.01SEC
```

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM  DEMO PROGRAM FOR BASIC/360
000003                  30 REM    DEMOS FOR..NEXT, PRINT, AND FUNCTIONS
000004                  40 REM
000005                  50 FOR I=1 TO 10
000010                  60 PRINT I,I*I,SQR(I),ABS(I)
000028                  70 NEXT I
000030                  80 PRINT
000032                  90 REM
000033                  100 PRINT
000035                  110 LET J=1
000038                  120 PRINT J,J*J,SQR(J)
000051                  130 LET J=J+1
000057                  140 IF J<=10 THEN 120
000061                  150 REM
000062                  160 END

**** END OF COMPILATION **** NO ERRORS FOUND

 1             1             1             1
 2             4             1.414213      2
 3             9             1.73205       3
 4             16            2             4
 5             25            2.236067      5
 6             36            2.449489      6
 7             49            2.64575       7
 8             64            2.828427      8
 9             81            3             9
 10            100           3.162277      10


 1             1             1
 2             4             1.414213
 3             9             1.73205
 4             16            2
 5             25            2.236067
 6             36            2.449489
 7             49            2.64575
 8             64            2.828427
 9             81            3
 10            100           3.162277


**** PROGRAM EXECUTION COMPLETE -      450 INSTRUCTIONS EXECUTED ****
```

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM   DEMO FOR RND FUNCTION
000003                  30 REM
000004                  40 PRINT "RND FUNCTION TEST"
000007                  50 FOR I=1 TO 20
000012                  60 PRINT RND(0)
000018                  70 NEXT I
000020                  80 END

**** END OF COMPILATION **** NO ERRORS FOUND

RND FUNCTION TEST
 0.918743
 0.509861
 0.790478
 0.154119
 0.81041
 0.475389
 0.558645
 0.073367
 0.412392
 0.814052
 0.172778
 0.710198
 0.706187
 0.845339
 0.716347
 0.690027
 0.693036
 0.947976
 0.450528
 0.171378


**** PROGRAM EXECUTION COMPLETE -      173 INSTRUCTIONS EXECUTED ****
```

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM  VALUDATION PROGRAM FOR BASIC/360
000003                  30 REM    ADVANCED PRINTING
000004                  40 REM
000005                  50 PRINT
000007                  60 PRINT "I","I*I","SQR(I)","ABS(I)"
000016                  70 FOR I=1 TO 4
000021                  80 PRINT "======",
000024                  90 NEXT I
000026                  100 PRINT
000028                  110 FOR I=1 TO 10
000033                  120 PRINT I,I*I,SQR(I),ABS(I)
000051                  130 NEXT I
000053                  140 PRINT
000055                  150 REM
000056                  160 PRINT
000058                  170 PRINT "J","J*J","SQR(J)"
000065                  180 FOR I=1 TO 3
000070                  190 PRINT "======",
000073                  200 NEXT I
000075                  210 PRINT
000077                  220 LET J=1
000080                  230 PRINT TAB(J),J,J*J,SQR(J)
000098                  240 LET J=J+1
000104                  250 IF J<=10 THEN 230
000108                  260 END

**** END OF COMPILATION **** NO ERRORS FOUND


I             I*I           SQR(I)        ABS(I)
======        ======        ======        ======
 1             1             1             1
 2             4             1.414213      2
 3             9             1.73205       3
 4             16            2             4
 5             25            2.236067      5
 6             36            2.449489      6
 7             49            2.64575       7
 8             64            2.828427      8
 9             81            3             9
 10            100           3.162277      10


J             J*J           SQR(J)
======        ======        ======
  1            1             1
   2           4             1.414213
    3          9             1.73205
     4         16            2
      5        25            2.236067
       6       36            2.449489
        7      49            2.64575
         8     64            2.828427
```

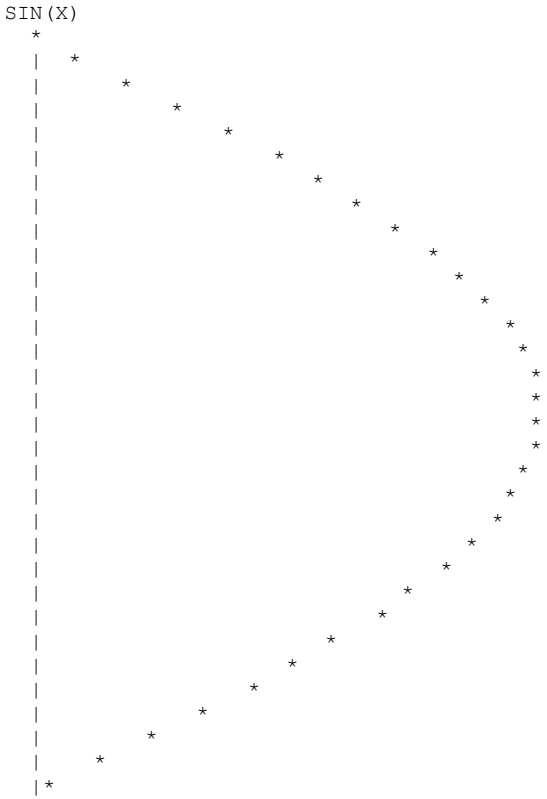
```
          9    81            3
           10  100           3.162277

**** PROGRAM EXECUTION COMPLETE -      566 INSTRUCTIONS EXECUTED ****
```

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM  VALIDATE IF, GOTO, READ AND DATA STATEMENTS
000003                  30 REM
000004                  40 PRINT "A","B"
000009                  50 READ A,B
000012                  60 IF A=999 THEN 290
000016                  70 IF A=B THEN 140
000020                  80 IF A<B THEN 160
000024                  90 IF A>B THEN 180
000028                 100 IF A<=B THEN 200
000032                 110 IF A>=B THEN 220
000036                 120 IF A<>B THEN 240
000040                 130 GOTO 50
000042                 140 PRINT A,B,"A=B"
000049                 150 GO TO 80
000051                 160 PRINT A,B,"A<B"
000058                 170 GO TO 90
000060                 180 PRINT A,B,"A>B"
000067                 190 GOTO 100
000069                 200 PRINT A,B,"A<=B"
000076                 210 GOTO 110
000078                 220 PRINT A,B,"A>=B"
000085                 230 GOTO 120
000087                 240 PRINT A,B,"A<>B"
000094                 250 GOTO 130
000096                 260 DATA 1,1,1,2,2,1
000097                 270 DATA 100,25,32,-5
000098                 280 DATA 999,999
000099                 290 END

**** END OF COMPILATION **** NO ERRORS FOUND

A             B
 1             1            A=B
 1             1            A<=B
 1             1            A>=B
 1             2            A<B
 1             2            A<=B
 1             2            A<>B
 2             1            A>B
 2             1            A>=B
 2             1            A<>B
 100           25           A>B
 100           25           A>=B
 100           25           A<>B
 32           -5            A>B
 32           -5            A>=B
 32           -5            A<>B


**** PROGRAM EXECUTION COMPLETE -      317 INSTRUCTIONS EXECUTED ****
```

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM  TEST PRINT NUMERIC FORMATTING
000003                  30 REM
000004                  40 READ A,B,C
000008                  50 IF A=9999 THEN 170
000012                  60 PRINT A,B,C
000019                  70 PRINT A-1,B-1,C-1
000035                  80 PRINT A+1,B+1,C+1
000051                  90 GOTO 40
000053                  100 DATA 1,2,3
000054                  110 DATA 1.23,3,432.3
000055                  120 DATA 1.0E+5,1.0E+6,1.0E+7
000056                  130 DATA -1.0E+5,-1.0E+6,-1.0E+7
000057                  140 DATA 1.0E-5,1.0E-6,1.0E-7
000058                  150 DATA -1.0E-5,-1.0E-6,-1.0E-7
000059                  160 DATA 9999,9999,9999
000060                  170 END

**** END OF COMPILATION **** NO ERRORS FOUND

 1             2             3
 0             1             2
 2             3             4
 1.229999      3             432.299804
 0.229999      2             431.299804
 2.229999      4             433.299804
 100000        1.00000E+06   1.00000E+07
 99999         999999        9.99999E+06
 100001        1.00000E+06   1.00000E+07
-100000       -1.00000E+06  -1.00000E+07
-100001       -1.00000E+06  -1.00000E+07
-99999        -999999       -9.99999E+06
 0.000009      9.99999E-07   9.99999E-08
-0.99999      -0.999999     -0.999999
 1.000009      1             1
-0.000009     -9.99999E-07  -9.99999E-08
-1.000009     -1            -1
 0.99999       0.999999      0.999999


**** PROGRAM EXECUTION COMPLETE -      307 INSTRUCTIONS EXECUTED ****
```

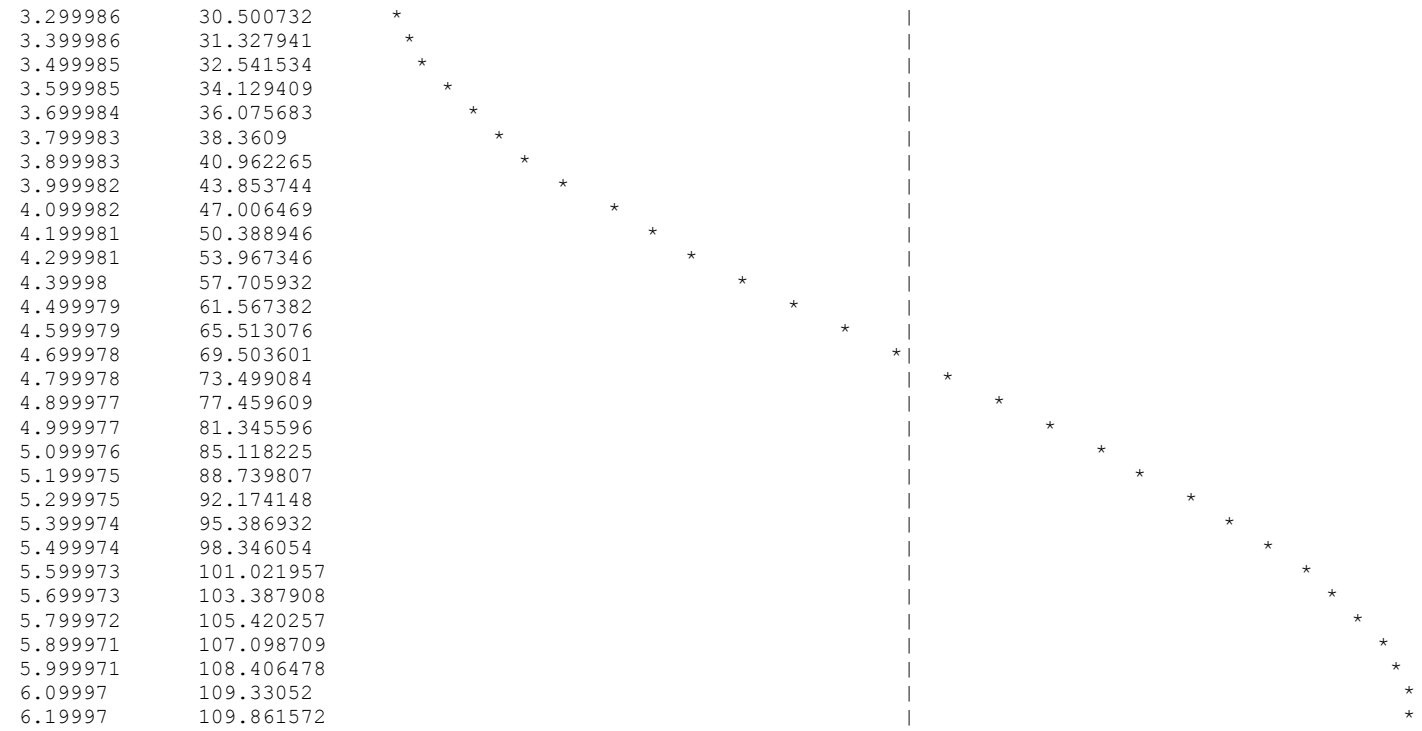
```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM   PLOT A SINE CURVE
000003                  30 REM
000004                  40 PRINT "X";TAB(68);"SIN(X)"
000014                  50 REM
000015                  60 FOR X=0 TO 6.28 STEP .1
000020                  70 LET Y=SIN(X)
000026                  80 LET Y2=Y*40+70
000035                  90 PRINT X,Y2;
000040                  100 IF Y2>70 THEN 140
000044                  110 IF Y2<70 THEN 160
000048                  120 PRINT TAB(70);"*"
000056                  130 GOTO 170
000058                  140 PRINT TAB(70);"|";TAB(Y2);"*"
000073                  150 GOTO 170
000075                  160 PRINT TAB(Y2);"*";TAB(70);"|"
000090                  170 NEXT X
000092                  180 END

**** END OF COMPILATION **** NO ERRORS FOUND
```

X	
0	70
0.099999	73.993331
0.199999	77.946762
0.299999	81.8208
0.399999	85.576721
0.499999	89.177001
0.599999	92.585678
0.699999	95.768692
0.799999	98.694229
0.899999	101.333068
0.999999	103.658828
1.099999	105.648269
1.199998	107.281539
1.299998	108.542297
1.399997	109.417968
1.499997	109.89978
1.599996	109.98294
1.699995	109.66661
1.799995	108.953933
1.899994	107.852066
1.999994	106.371978
2.099993	104.528488
2.199993	102.340011
2.299992	99.828399
2.399991	97.018753
2.499991	93.939147
2.59999	90.620361
2.69999	87.095535
2.799989	83.399902
2.899989	79.570388
2.999988	75.645248
3.099987	71.663696



```
 3.199987      67.665527                                          *  |
 3.299986      63.690689                                       *     |
 3.399986      59.778884                                    *        |
 3.499985      55.969207                                 *           |
 3.599985      52.299728                              *              |
 3.699984      48.807083                           *                 |
 3.799983      45.526199                        *                    |
 3.899983      42.489837                     *                       |
 3.999982      39.728363                  *                          |
 4.099982      37.269332               *                             |
 4.199981      35.137329            *                                |
 4.299981      33.353668         *                                   |
 4.39998       31.936157       *                                     |
 4.499979      30.898971      *                                      |
 4.599979      30.252456      *                                      |
 4.699978      30.003082      *                                      |
 4.799978      30.15335       *                                      |
 4.899977      30.701736      *                                      |
 4.999977      31.642776       *                                     |
 5.099976      32.967071         *                                   |
 5.199975      34.661376            *                                |
 5.299975      36.70877                *                            |
 5.399974      39.08879                   *                         |
 5.499974      41.777664                     *                       |
 5.599973      44.748519                        *                    |
 5.699973      47.971694                           *                 |
 5.799972      51.414947                              *              |
 5.899971      55.043884                                 *           |
 5.999971      58.82228                                     *        |
 6.09997       62.712341                                       *     |
 6.19997       66.675231                                          *  |

**** PROGRAM EXECUTION COMPLETE -     2789 INSTRUCTIONS EXECUTED ****
```

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM   PLOT A COSINE CURVE
000003                  30 REM
000004                  40 PRINT "X";TAB(68);"COS(X)"
000014                  50 REM
000015                  60 FOR X=0 TO 6.28 STEP .1
000020                  70 LET Y2=COS(X)*40+70
000032                  80 PRINT X,Y2;
000037                  90 IF Y2>70 THEN 130
000041                  100 IF Y2<70 THEN 150
000045                  110 PRINT TAB(70);"*"
000053                  120 GOTO 160
000055                  130 PRINT TAB(70);"|";TAB(Y2);"*"
000070                  140 GOTO 160
000072                  150 PRINT TAB(Y2);"*";TAB(70);"|"
000087                  160 NEXT X
000089                  170 END

**** END OF COMPILATION **** NO ERRORS FOUND

X                                                                    COS(X)
 0             110                                                   |                                        *
 0.099999      109.800155                                            |                                       *
 0.199999      109.202651                                            |                                       *
 0.299999      108.213455                                            |                                      *
 0.399999      106.842437                                            |                                    *
 0.499999      105.103302                                            |                                    *
 0.599999      103.013427                                            |                                  *
 0.699999      100.593688                                            |                                *
 0.799999      97.86827                                              |                             *
 0.899999      94.864395                                             |                           *
 0.999999      91.612091                                             |                        *
 1.099999      88.143859                                             |                     *
 1.199998      84.494338                                             |                  *
 1.299998      80.700012                                             |               *
 1.399997      76.798767                                             |           *
 1.499997      72.829589                                             | *
 1.599996      68.832153                                           * |
 1.699995      64.846374                                        *    |
 1.799995      60.912094                                     *       |
 1.899994      57.068603                                  *          |
 1.999994      53.354339                               *             |
 2.099993      49.806381                            *                |
 2.199993      46.460189                         *                   |
 2.299992      43.349182                      *                      |
 2.399991      40.50447                    *                         |
 2.499991      37.954467                *                            |
 2.59999       35.724639             *                               |
 2.69999       33.83728           *                                  |
 2.799989      32.311248       *                                     |
 2.899989      31.161788     *                                       |
 2.999988      30.400375   *                                         |
 3.099987      30.034622   *                                         |
 3.199987      30.068191   *                                         |
```



3.299986	30.500732	*
3.399986	31.327941	*
3.499985	32.541534	*
3.599985	34.129409	*
3.699984	36.075683	*
3.799983	38.3609	*
3.899983	40.962265	*
3.999982	43.853744	*
4.099982	47.006469	*
4.199981	50.388946	*
4.299981	53.967346	*
4.39998	57.705932	*
4.499979	61.567382	*
4.599979	65.513076	*
4.699978	69.503601	*
4.799978	73.499084	*
4.899977	77.459609	*
4.999977	81.345596	*
5.099976	85.118225	*
5.199975	88.739807	*
5.299975	92.174148	*
5.399974	95.386932	*
5.499974	98.346054	*
5.599973	101.021957	*
5.699973	103.387908	*
5.799972	105.420257	*
5.899971	107.098709	*
5.999971	108.406478	*
6.09997	109.33052	*
6.19997	109.861572	*

**** PROGRAM EXECUTION COMPLETE - 2605 INSTRUCTIONS EXECUTED ****

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM  DEMONSTRATE DIM AND SUBSCRIPTED VARIABLES
000003                  30 REM
000004                  40 DIM I(10)
000005                  50 DIM J(10),K(10)
000006                  60 FOR X=1 TO 10
000011                  70 LET I(X)=X
000017                  80 LET J(X)=X*X
000026                  90 LET K(X)=SQR(X)
000035                  100 NEXT X
000037                  110 FOR X=10 TO 1 STEP -1
000045                  120 PRINT I(X),J(X),K(X)
000064                  130 NEXT X
000066                  140 END

**** END OF COMPILATION **** NO ERRORS FOUND

 10             100            3.162277
 9              81             3
 8              64             2.828427
 7              49             2.64575
 6              36             2.449489
 5              25             2.236067
 4              16             2
 3              9              1.73205
 2              4              1.414213
 1              1              1


**** PROGRAM EXECUTION COMPLETE -      490 INSTRUCTIONS EXECUTED ****
```

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM  DEMONSTRATE DIM AND SUBSCRIPTED VARIABLES
000003                  30 REM
000004                  40 DIM I(10)
000005                  50 DIM J(10),K(10)
000006                  60 FOR X=1 TO 10 STEP 2
000011                  70 LET I(X)=X
000017                  80 LET J(X)=X*X
000026                  90 LET K(X)=SQR(X)
000035                  100 NEXT X
000037                  110 FOR X=2 TO 10 STEP 2
000042                  120 LET I(X)=X
000048                  130 LET J(X)=X*X
000057                  140 LET K(X)=SQR(X)
000066                  150 NEXT X
000068                  160 FOR X=10 TO 1 STEP -1
000076                  170 PRINT I(X),J(X),K(X)
000095                  180 NEXT X
000097                  190 END

**** END OF COMPILATION **** NO ERRORS FOUND

 10            100           3.162277
 9             81            3
 8             64            2.828427
 7             49            2.64575
 6             36            2.449489
 5             25            2.236067
 4             16            2
 3             9             1.73205
 2             4             1.414213
 1             1             1


**** PROGRAM EXECUTION COMPLETE -      495 INSTRUCTIONS EXECUTED ****
```

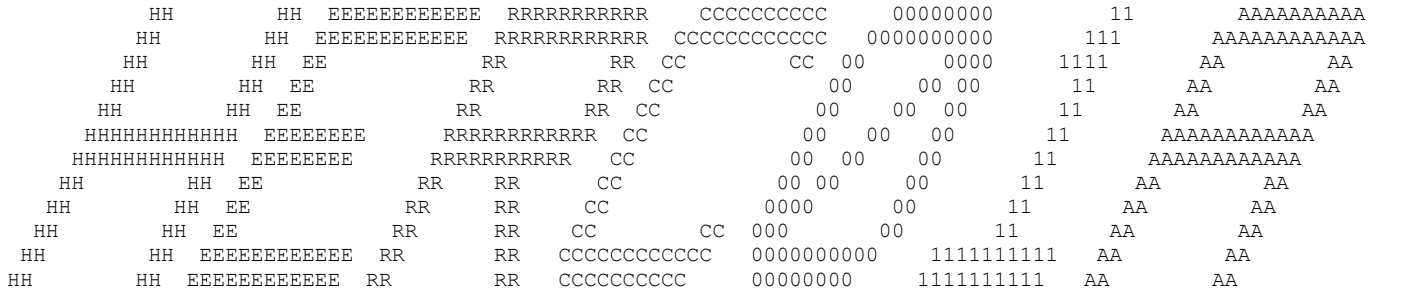
```
++BASIC

OFFSET

000001                  10 REM TEST STRINGS VS NUMERIC VARIABLES
000002                  20 REM
000003                  30 LET X$="PASSED"
000006                  40 LET X=10
000009                  50 PRINT "THE NUMBER 10 AND THE WORD PASSED SHOULD PRINT"
000012                  60 PRINT X
000015                  70 LET Y$=X$
000018                  80 PRINT Y$
000021                  90 END

**** END OF COMPILATION **** NO ERRORS FOUND

THE NUMBER 10 AND THE WORD PASSED SHOULD PRINT
 10
PASSED


**** PROGRAM EXECUTION COMPLETE -       22 INSTRUCTIONS EXECUTED ****
```

```
++BASIC

OFFSET

000001                  10 REM TEST STRINGS VS NUMERICS
000002                  20 PRINT "SHOULD ABEND STORING A STRING TO A NUMBER"
000005                  30 LET X$="HELLO"
000008                  40 LET X=10
000011                  50 PRINT "HELLO WORLD"
000014                  60 PRINT X,X$
000019                  70 LET X=X$
000022                  80 END

**** END OF COMPILATION **** NO ERRORS FOUND

SHOULD ABEND STORING A STRING TO A NUMBER
HELLO WORLD
 10           HELLO


**** PROGRAM EXECUTION TERMINATED IN LINE    70 ****
**** STRING CANNOT BE STORED IN A NUMERIC VARIABLE ****
```

```
++BASIC

OFFSET

000001                  10 REM TEST STRINGS IN DATA STATEMENTS
000002                  20 DIM A$(10)
000003                  30 DATA 1,2,"HELLO FROM DATA 2ND LINE PRINTED"
000004                  40 READ X,Y
000007                  50 PRINT "HELLO FROM PRINT 1ST LINE PRINTED"
000010                  60 PRINT X,Y
000015                  70 READ X$
000017                  80 PRINT X$
000020                  90 LET A$(1)="THIRD LINE PRINTED"
000026                  100 PRINT A$(1)
000033                  110 END

**** END OF COMPILATION **** NO ERRORS FOUND

HELLO FROM PRINT 1ST LINE PRINTED
 1             2
HELLO FROM DATA 2ND LINE PRINTED
THIRD LINE PRINTED


**** PROGRAM EXECUTION COMPLETE -       34 INSTRUCTIONS EXECUTED ****
```

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM   DEMO FOR LOOPING PROGRAM
000003                  30 REM
000004                  40 PRINT "THIS PROGRAM DEMOS RUN AWAY ACTION"
000007                  50 LET X=0
000010                  60 IF X>1000 THEN 90
000014                  70 LET X=X+1
000020                  80 GOTO 60
000022                  90 PRINT "DONE"
000025                  100 END

**** END OF COMPILATION **** NO ERRORS FOUND

THIS PROGRAM DEMOS RUN AWAY ACTION


**** PROGRAM EXECUTION TERMINATED IN LINE    80 ****
**** PROGRAM ABORTED AFTER EXECUTING      5000 INSTRUCTIONS ****
```

```
++BASIC

OFFSET

000001                  10 REM
000002                  20 REM   DEMO FOR LOOPING PROGRAM
000003                  30 REM
000004                  40 PRINT "THIS PROGRAM DEMOS FALL OFF END (NO END STMT)"
000007                  50 LET X=0
000010                  60 IF X>100 THEN 90
000014                  70 LET X=X+1
000020                  80 GOTO 60
000022                  90 PRINT "DONE"

**** END OF COMPILATION **** NO ERRORS FOUND

THIS PROGRAM DEMOS FALL OFF END (NO END STMT)
DONE


**** PROGRAM EXECUTION TERMINATED IN LINE    90 ****
**** PROGRAM RUN AWAY DETECTED ****
```



****A END JOB 499 HERC01A ROOM 10.16.19 AM 10 SEP 17 PRINTER1 SYS BSP1 JOB 499 END A****
****A END JOB 499 HERC01A ROOM 10.16.19 AM 10 SEP 17 PRINTER1 SYS BSP1 JOB 499 END A****
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