

FLORIDA HIGH SCHOOLS COMPUTING COMPETITION '89
 JUDGING CRITERIA

1.1 RUN PROGRAM:

OUTPUT: (The screen will display the following phrase, with each line indented 1 space more than the preceding)

```

1989 COMPUTER CONTEST
 1989 COMPUTER CONTEST
  1989 COMPUTER CONTEST
    :
    :
    :
      1989 COMPUTER CONTEST
    
```

1.2 INPUT: Enter number of gigabytes: 29
 OUTPUT: 29696 MEGABYTES

INPUT: Enter number of gigabytes: 7
 OUTPUT: 7168 MEGABYTES

1.3	INPUT: Enter word: COMPUTER	INPUT: Enter word: EASY
	OUTPUT: C	OUTPUT: E
	O	A
	M	S
	P	EASY
	U	
	T	
	E	
	COMPUTER	

1.4	INPUT: Enter N: 7	INPUT: Enter N: 2
	OUTPUT: 1	OUTPUT: 1
	2 2	2 2
	3 3	
	4 4	
	5 5	
	6 6	
	7 7	

- 1.5 INPUT: Enter date: 11
Enter A.D. or B.C.: **A.D.**
OUTPUT: **15 A.D.**
- INPUT: Enter date: 1
Enter A.D. or B.C.: **B.C.**
OUTPUT: **4 A.D.**
- INPUT: Enter date: 9
Enter A.D. or B.C.: **B.C.**
OUTPUT: **5 B.C.**
- 1.6 OUTPUT/INPUT: **ENTER PASSWORD: LETMEIN**
OUTPUT/INPUT: **INVALID PASSWORD: ITSME**
OUTPUT: **YOU HAVE ACCESS**
- OUTPUT/INPUT: **ENTER PASSWORD: DOUG**
OUTPUT/INPUT: **INVALID PASSWORD: CRAIG**
OUTPUT/INPUT: **INVALID PASSWORD: BRAD**
OUTPUT: **YOU ARE TRESSPASSING**
- 1.7 INPUT: Enter N: 2
Enter DBMS name: **DEB**
Enter convenience, efficiency: 5, 3
Enter DBMS name: **KIM**
Enter convenience, efficiency: 8, 1
OUTPUT: **KIM IS BEST**
- INPUT: Enter N: 4
Enter DBMS name: **COM1**
Enter convenience, efficiency: 5, 9
Enter DBMS name: **COM2**
Enter convenience, efficiency: 9, 3
Enter DBMS name: **COM3**
Enter convenience, efficiency: 5, 2
Enter DBMS name: **COM4**
Enter convenience, efficiency: 5, 5
OUTPUT: **COM1 IS BEST**
- 1.8 INPUT: Enter #: 10
Enter #: -1
Enter #: -6
Enter #: -1
Enter #: -1
Enter #: -2
Enter #: 10
Enter #: -999
OUTPUT: **10 -1 -6 -2**
- INPUT: Enter #: 15
Enter #: 2
Enter #: 3
Enter #: 15
Enter #: 2
Enter #: 2
Enter #: -999
OUTPUT: **15 2 3**

1.9 INPUT: Enter probability: 5E17
OUTPUT: 8 FEET DEEP

INPUT: Enter probability: 9.8E18
OUTPUT: 164 FEET DEEP

1.10 INPUT: Enter Seg#, Address: 0, 250
OUTPUT: 469
INPUT: Enter Seg#, Address: 8, 50
OUTPUT: (program terminates)

INPUT: Enter Seg#, Address: 4, 100
OUTPUT: ADDRESSING ERROR
INPUT: Enter Seg#, Address: 3, 500
OUTPUT: 1827
INPUT: Enter Seg#, Address: 7, 10
OUTPUT: (program terminates)

2.1 INPUT: Enter x: 7 INPUT: Enter x: 9 INPUT: Enter x: 2
 OUTPUT: **F(7) = 29** OUTPUT: **F(9) = 169** OUTPUT: **F(2) = 1**

2.2 INPUT: 980 INPUT: 79
 OUTPUT: 2 X 2 X 5 X 7 X 7 OUTPUT: 79

INPUT: 608
 OUTPUT: 2 X 2 X 2 X 2 X 2 X 19

2.3 INPUT: Enter word: **COMPUTER** INPUT: Enter word: **FLORIDA**
 OUTPUT: **CMPTR** OUTPUT: **FLRD**

<p>2.4 INPUT: Enter name: NUMBER Enter name: INDEX Enter name: INSIDE Enter name: NUM Enter name: J Enter name: COUNT</p> <p>OUTPUT: NUMB IND INS NUM J C</p>	<p>INPUT: Enter name: MAXIMUM Enter name: COUNT Enter name: COUNTER Enter name: HOURS Enter name: MAXNUM Enter name: MARGIN</p> <p>OUTPUT: MAXI COUNT COUNTE H MAXN MAR</p>
---	---

2.5 INPUT: Enter word: **MISSISSIPPI**
 OUTPUT: **34650**

INPUT: Enter word: **REHEARSE**
 OUTPUT: **3360**

INPUT: Enter word: **RELEASE**
 OUTPUT: **840**

2.6 INPUT: Enter sentence: ***ONE*TWO*THREE*FOUR*FIVE*SIX**
OUTPUT: (Screen is cleared)
***ONE*TWO*THREE*FOUR*FIVE*SIX**

ONETWOTHREEFOURFIVESIX
--- - - -

INPUT: ***THIS ENTIRE LINE IS UNDERLINED***
OUTPUT: (Screen is cleared)
THIS ENTIRE LINE IS UNDERLINED

THIS ENTIRE LINE IS UNDERLINED

2.7 INPUT: Enter expression: 10+9900
OUTPUT: **9910**

INPUT: Enter expression: 1005*19
OUTPUT: **19095**

INPUT: Enter expression: 5-234
OUTPUT: **-229**

INPUT: Enter expression: 1224/24
OUTPUT: **51**

2.8 INPUT: Enter #Rows, #Cols: 3, 4

Enter Row1 Col1: 2
Enter Row1 Col2: -2
Enter Row1 Col3: -4
Enter Row1 Col4: -8
Enter Row2 Col1: 0
Enter Row2 Col2: 4
Enter Row2 Col3: -2
Enter Row2 Col4: 2
Enter Row3 Col1: -8
Enter Row3 Col2: -4
Enter Row3 Col3: -6
Enter Row3 Col4: 6

OUTPUT: **SADDLE POINT = -2 AT ROW 2 COL 3**

INPUT: Enter #Rows, #Cols: 2, 2
Enter Row1 Col1: 4
Enter Row1 Col2: 3
Enter Row2 Col1: 1
Enter Row2 Col2: 2

OUTPUT: **SADDLE POINT = 3 AT ROW 1 COL 2**

2.9 INPUT: Enter # of dates: 4
Enter month: **APRIL**
Enter day: 23
Enter year: 1988

Enter month: **OCTOBER**
Enter day: 16
Enter year: 1966

Enter month: **APRIL**
Enter day: 8
Enter year: 1989

Enter month: **JUNE**
Enter day: 3
Enter year: 1980

OUTPUT: **OCTOBER 16 1966**
JUNE 3 1980
APRIL 23 1988
APRIL 8 1989

INPUT: Enter # of dates: 2
Enter month: **MARCH**
Enter day: 3
Enter year: 1980

Enter month: **MARCH**
Enter day: 1
Enter year: 1980

OUTPUT: **MARCH 1 1980**
MARCH 3 1980

2.10 RUN PROGRAM:

OUTPUT:

NAME	Q1	Q2	Q3	Q4
D. WOOLY	100	92	90	90
M. SMITH	55	75	70	65
C. BROWN	94	70	62	70
R. GREEN	90	74	80	85
T. STONE	85	98	100	70

INPUT: Enter 5 grades for quiz 4: 95, 68, 70, 85, 75

OUTPUT: (Screen is cleared)

MS. HEINDEL'S MUSIC CLASS
FINAL GRADES
SPRING 1989

NAME	Q1	Q2	Q3	Q4	AVERAGE
D. WOOLY	100	92	90	95	94.25
M. SMITH	55	75	70	68	67.00
C. BROWN	94	70	62	70	74.00
R. GREEN	90	74	80	85	82.25
T. STONE	85	98	100	75	89.50

AVERAGE: 84.80 81.80 80.40 78.60

CLASS AVERAGE: 81.40

3.1 INPUT: Enter word: **ABLE** OUTPUT: **CORRECT**
 INPUT: Enter word: **SPELLL** OUTPUT: **MISSPELLED**
 INPUT: Enter word: **SIBLING** OUTPUT: **CORRECT**
 INPUT: Enter word: **PIERCE** OUTPUT: **CORRECT**
 INPUT: Enter word: **PEACEABLE** OUTPUT: **MISSPELLED**
 INPUT: Enter word: **CONCIEVE** OUTPUT: **MISSPELLED**
 INPUT: Enter word: **SEIVE** OUTPUT: **MISSPELLED**

3.2 RUN PROGRAM:

OUTPUT: P = 0.05 V = 0.4097
 P = 0.70 V = 0.4122
 P = 10.00 V = 0.4518
 P = 70.00 V = 1.2263

INPUT: Enter value for P: 50.00

OUTPUT: P = 50.00 V = 0.7744

3.4 INPUT: Enter month, year: 4, 1989

OUTPUT: APRIL 1989

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

INPUT: Enter month, year: 2, 1980

OUTPUT: FEBRUARY 1980

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	

3.5 RUN PROGRAM:

OUTPUT: ROWS = 1 2 3 4 5

COLUMNS

1	3	5	2	4
1	4	2	5	3
2	4	1	3	5
2	5	3	1	4
3	1	4	2	5
3	5	2	4	1
4	1	3	5	2
4	2	5	3	1
5	2	4	1	3
5	3	1	4	2

3.6 INPUT: Enter base: 4

Enter first integer: -123012301230123012301230

Enter second integer: -111100002222333300001111

OUTPUT: 21000001020123000000203312333332313210333333130

INPUT: Enter base: 10

Enter first integer: 123456789012345678901234567890

Enter second integer: -9876543210

OUTPUT: -1219326311248285321124828532111263526900

INPUT: Enter base: 8

Enter first integer: 12345670123456701234567

Enter second integer: 7654321076543210

OUTPUT: 121705336146616716573067044023333510470

3.9 RUN PROGRAM:

```
OUTPUT: BIBLE  94    OBESE  89
        IDYLL 110    TITHE  95
        NOISE  79    INLET  95
        GULLY  98    IGLOO 100
        OBESE  89    TOWER  94
                470            473
                ***
```

```
INPUT: Enter word: BOOST
        Enter word: BILLY
        Enter word: GLORY
        Enter word: TOOTH
        Enter word: OLIVE
        Enter word: (Enter key pressed)
```

```
OUTPUT: BILLY 108    OBESE  89
        IDYLL 110    BILLY 108
        NOISE  79    INLET  95
        GULLY  98    IGLOO 100
        OLIVE  99    TOOTH  98
                494            490
                ***
```

```
INPUT: Enter word: NOVEL
        Enter word: TIGER
        Enter word: BELOW
        Enter word: OWLET
        Enter word: TOTAL
        Enter word: TITLE
        Enter word: (Enter key pressed)
```

```
OUTPUT: BILLY 108    OBESE  89
        IDYLL 110    TITLE 118
        NOVEL  81    INLET  95
        GULLY  98    IGLOO 100
        OWLET 112    TOTAL 108
                509            510
                ***
```

```
INPUT: Enter word: QUIT
```

```
OUTPUT: (program terminates)
```

3.10 INPUT: Enter TOP side: B
Enter FRONT side: B
Enter BOTTOM side: B
Enter BACK side: B
Enter RIGHT side: G
Enter LEFT side: G
OUTPUT: **NUMBER OF DISTINGUISHABLE CUBES = 3**

INPUT: Enter TOP side: B
Enter FRONT side: B
Enter BOTTOM side: B
Enter BACK side: B
Enter RIGHT side: G
Enter LEFT side: Y
OUTPUT: **NUMBER OF DISTINGUISHABLE CUBES = 6**

INPUT: Enter TOP side: G
Enter FRONT side: G
Enter BOTTOM side: G
Enter BACK side: B
Enter RIGHT side: B
Enter LEFT side: B
OUTPUT: **NUMBER OF DISTINGUISHABLE CUBES = 12**

INPUT: Enter TOP side: R
Enter FRONT side: R
Enter BOTTOM side: B
Enter BACK side: B
Enter RIGHT side: R
Enter LEFT side: B
OUTPUT: **NUMBER OF DISTINGUISHABLE CUBES = 8**

INPUT: Enter TOP side: G
Enter FRONT side: G
Enter BOTTOM side: B
Enter BACK side: B
Enter RIGHT side: B
Enter LEFT side: Y
OUTPUT: **NUMBER OF DISTINGUISHABLE CUBES = 24**