Name: **Id#**

ICS 103, Term 103

Computer Programming in C

Quiz# 2

Date: Tuesday, July 19, 2011

Q1. Determine the output of the following program:

```
#inclide <stdio.h>
int main (void) {

  int j, k=1;
  do {
     for(j=0; j < abs(3-k); j++)
         printf("*");
     printf("%d\n",j);
     k++;
  } while (k <= 5);
  return 0;
}
```

Q2. Rewrite the following shaded part using **do while loop** instead of while loop:

```
#include <stdio.h>
int main(void) {
int i;
printf("Enter a number: ");
scanf("%d",&i);
while (i<0 || i>100){
  printf("Enter a number: ");
  scanf("%d",&i);
}
return 0;
}
```

Q3. Write a program that finds the equivalent series and parallel resistance for a collection of resistor values. Your program should compute the equivalent series and parallel resistances for all resistors in the collection correct up to two decimal places. Use any **non-positive** value to indicate the end of the program data. Note that the series resistance is computed as Rs=R1+R2+R3+…, while the parallel resistance is computed as Rp=1/(1/R1+ 1/R2+1/R3+…).

Sample executions of the program are shown below:

```
Enter a collection of resistor values:
1 2 3 0
Series resistance is 6.00
Parallel resistance is 0.55
Press any key to continue . . .
```

```
Enter a collection of resistor values:
10 20 -1
Series resistance is 30.00
Parallel resistance is 6.67
Press any key to continue . . .
```