

Name:

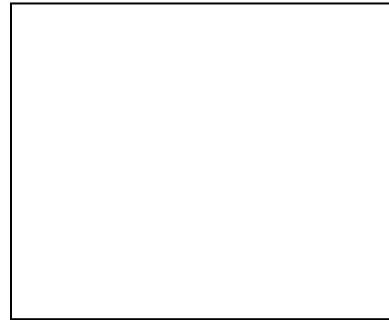
Id#

ICS 103, Term 093
Computer Programming in C
Quiz# 2

Date: Tuesday, July 27, 2010

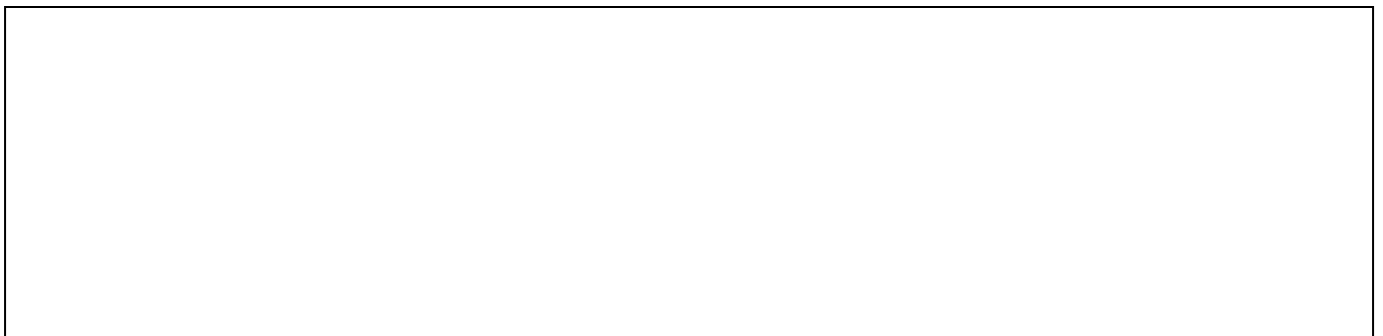
Q1. Determine the output of the following program:

```
#include <stdio.h>
int main(void) {
int i, j;
  for (i=5;i>=1; i--){
    for (j=i;j>=1; j--){
      printf("%d",j);
      printf("\n");
    }
  }
return 0;
}
```



Q2. Rewrite the following shaded part using **for 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 asks the user to enter a positive number, n, and display s(n) computed as follows: $s(n) = \frac{1}{3} + \frac{1}{7} + \frac{1}{11} + \dots + \frac{1}{4n+3}$. Note that $s(0) = \frac{1}{3}$ and $s(1) = \frac{1}{3} + \frac{1}{7}$. The user should be asked to reenter the input if a negative value is entered. A sample execution of the program is given below:

```
Enter a positive number: -1
Enter a positive number: 3
s(3) = 1/3 + 1/7 + 1/11 + 1/15 = 0.63
Press any key to continue . . .
```