United International University
CSE 1111- Section L
Class Test 2

Name:
ID:

Q1. Write a code which prints the following pattern. (5 Marks)

Input : 5
Output : 1
```
    2
     3
      4
       5
```

Input : 3
Output : 1
```
    2
     3
```

Q2. Write the output of the following program for inputs n = 1,3,4,5,6 (5 Marks)

```
#include <stdio.h>
int main() {
   int n;
   scanf("%d",&n);
   if(n%2 == 1){
      for(int i = n; i>0; i--) {
        for(int j = 1; j<i; j++) printf(" ");
        printf("*\n");
      } }
   else{
     for(int i = n; i>0; i--) {
      for(int j = 1; j<=i; j++) printf("*");
      printf(" \n"); }}}
```

Q3. The Fibonacci Series goes as follows : 0,1,1,2,3,5,8…….
To find the n-th Fibonacci number, you add the (n-1)th Fibonacci number and the (n-2)th Fibonacci number. For example: The 6th Fibonacci number (8) is found by adding the 4th Fibonacci number (3) and the 5th Fibonacci number (5). Write a code which takes an input n, and prints the n-th Fibonacci number. (10 Marks)

Input : 0
Output : Fibonacci 0 = 0

Input : 1
Output : Fibonacci 1 = 1

Input : 2
Output : Fibonacci 2 = 1

Input : 6
Output : Fibonacci 6 = 8