## ESC101: Fundamentals of Computing (Minor Quiz 3)

29 March, 2016

Total Number of Pages: 2

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Total Points 10

Question 1. (2 points) Consider the program given below.

```
#include < stdio.h>
 2
   void f(char a){
     if (a != 'Z'){
 4
       f(getchar());
 5
 6
       putchar(a);
 7
 8
9
  int main(){
10
    f(getchar());
11
12
     return 0;
  }
13
```

What is the output of the program for the following inputs?

Input: XCYRVFIHGZ

Output:

GHIFVRYCX

Input: YNMNMPPHZRVTYU

Output:

HPPMNMNY

```
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Question 2. (8 points) Consider the program given below
   #include < stdio. h>
   int f(int *ar, int n, int k){
     if (k==0) return 1;
 5
 6
     if (k<0 || n==0) return 0;
 7
 8
     return (f(ar+1,n-1,k) + f(ar+1,n-1,k-*ar));
 9
10
   }
11
   int main(){
12
     int n,k,i;
13
     int ar [15];
14
     scanf("%d%d",&n,&k);
15
     for(i=0;i<n;i++){
16
        scanf("%d",ar+i);
17
18
     printf("%d", f(ar,n,k));
19
     return 0;
20
21
```

What is the output of the program for the following inputs? If the program results in an error, mention the type of error.

```
Input: 7 4 2 3 1 5 8 2 9

Output:

Out
```