Name: Section: Rollno:

Minor Quiz 2 **Pages: 2** **Duration: 15 minutes**

Question 1. (10 points) Anty has written the following program to read characters from the input and count the number of **lower case**, **upper case**, and **other** characters. The program reads **up to 10 characters** until a **. (DOT)** is encountered, and print the counts. **DOT** is also counted as **other** character.

```
1  #include <stdio.h>
2  int main()
3  {
4      int cUpper, cLower, cOther;
5      char ch;
6      int k = 1;
7
8      while (k < 10) {
9
10         k++;
11
12         scanf("%c", ch); // read the next char
13
14         if (('a' <= ch) && ('z' >= ch)) {
15             cLower = cLower + 1;
16             continue;
17         }
18
19         if (('A' <= ch) && ('Z' >= ch)) {
20             cUpper = cUpper + 1;
21             continue;
22         }
23
24         cOther = cOther + 1;
25
26         if (ch = '.') {
27             break;
28         }
29
30     }
31
32     /* output the result */
33     printf("Lower = %d, Upper = %d, Other = %d\n",
34            cLower, cUpper, cOther);
35
36     return 0;
37 }
```

When run with certain inputs, the program produces unexpected results, as given in this table:

INPUT	OUTPUT
IITKanpur.	Lower = -2144426575, Upper = 2, Other = 1
iitK**.	Lower = 44, Upper = 2567, Other = 21

You have to give **minimum** number of changes required to fix the program, in the space below.

Line#	**Change**