## Assignment 1: The Next or the Previous Integer

## 1.1 The Sign of an Integer

You know that there are three kinds of integers: the positive ones, the negative ones, and zero. The sign of an integer can be tested using comparison operators (<, >, <=,and >=) and if statement.

Fortunately, scanf can read an integer with a sign such as +8 and -15. To print an integer with a sign, just add + between % and d, i.e. %+d, in the format string of printf. The following shows a sample program printing some integers with signs.

```
#include <stdio.h>
3
  int main()
4
  {
5
       int a = 0, b = 15, c = -237;
6
7
       printf("%+d\n", a);
8
       printf("%+d\n", b);
9
       printf("%+d\n", c);
10
11
       return 0;
12
```

## 1.2 Programming Assignment 1: norp.c

Write a program to read an integer n and print the next or the previous integer depending on the sign of n. Print n + 1 if n is positive; n - 1 if n is negative; +0 if n is zero. Note that the plus sign is printed with zero. C knows that you are a positive person.

The input consists of a single line containing a decimal integer n. Depending on the sign of n, your program should print the next number, the previous number, or zero. The output integer should include the sign always.

Input	Output
8	+9
+15	+16
-273	-274
0	+0