SheSolves

competitive programming contest

SheSolves Programming Competition

INSAT - National Institute of Applied Science and Technology

Practice Problem A

Math is Life

Input : STDIN

Output : STDOUT

Welcome to the SheSolves programming contest!
This event is a collaboration between INSAT ACM Student Chapter and IEEE INSAT WIE Affinity Group. The event is powered by BTL : Tunisian Libyan Bank, Crococoders, Dailyin and our beloved institute, INSAT!

Let's start by testing your advanced mathematical skills, shall we?

We have two integers: A and B, can you find the largest number among $A+B$, $A-B$ and $A*B$.

IN	-100 ≤ A ≤ 100 -100 ≤ B ≤ 100
OUT	Print the largest number among $A+B$, $A-B$ and $A*B$.

EX 1	INPUT	OUTPUT
	-13 3	-10

NOTE

Note that the input method specified in the top of this paper is the standard input(stdin). Use these bits of code according to the programming language you are using to be able to read from the stdin.

C++:

```
int myInteger;
string myString;
cin >> myInteger>> myString; // read an integer then a string
```

Java (use the following Scanner object):

```
Scanner sc = new Scanner(System.in);
int myInteger = sc.nexInt();  // read an integer
String myString = sc.next();  // read a string
sc.close();
```

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Practice Probem B

Siraje's OCD

Input : STDIN

Output : STDOUT

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Sirajeddine is a victim of Obessive-Compulsive Disorder (OCD). He wants everything to be always tidy(including arrays). So when he sees an array that is not completely sorted, his OCD activates!
Let's define an «intrusion» as an element that is not in its correct place in the sorted version of the array.
Given N and an array of integers A of size N, return the number of intrusions.
For example, if N = 3 and A= [1, 3, 2], then the sorted version of the array will be [1, 2, 3] and thus the number of intrusions wil be equal to 2 because the elements 2 and 3 are not in their correct place.

IN The first line of input will contain N ($1 \leq N \leq 100$), the size of the array. The second one will contain the array itself A where each element is in [1,N].

OUT Print the number of intrusions in the array A.

EX 1	INPUT	OUTPUT
	3 **1 3 2**	2

NOTE Note that the input method specified in the top of this paper is the standard input(stdin). Use these bits of code according to the programming language you are using to be able to read from the stdin.
C++:

```
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