Sl. No	Problem Statement
1	**Assignment 2 (24 Jan 2024)** **Write Lex program for the following : (Question 1 - 3 marks, Question 2 - 3 marks, Question 3 - 4 marks)**

The Egg

"**The Egg**" is an egg supply company which supplies eggs to retailers. They have **N** number of eggs with them. They accept orders for **K** eggs. In response, they confirm if they can supply the eggs with a "**Thank you**" note. If the number of eggs ordered is greater than or equal to the total number of eggs in stock then they respond back with the "**sorry**" note.

Input format

First line of the input contains the total Number of Eggs available in company **N.**

Second line of the input contains the **K** Number of Eggs ordered by the retailer**.**

Constraints

1 <= **N** < = 10000

1 < **K** < 10000

Output format

First line of the output contains the **K** number of Eggs .

Second line of the output contains The note (**Sorry** or **Thank You**).

Sample Input	**Sample Input**	**Sample Input**	**Sample Input**	**Sample Input**
200 150	350 350	50.05 25	10000 10.0	550 600
Sample Output	**Sample Output**	**Sample Output**	**Sample Output**	**Sample Output**
150 Thank You	350 Sorry	25 Invalid	10.0 Invalid	600 Sorry

2

String Toggle

You have been given a String ***S*** consisting of uppercase and lowercase English alphabets. You need to change the case of each alphabet in this String. That is, all the uppercase letters should be converted to lowercase and all the lowercase letters should be converted to uppercase. You need to then print the resultant String to output.

Input format

First line of the input contains the String **S.**

Constraints

1 <= | **l** | < = 100 where **l** denotes the Length of the string

Output format

First line of the output contains the resultant String on a single line.

Sample Input	**Sample Input**	**Sample Input**	**Sample Input**
ISHAAN	ABcde70	10253	HELLO world
Sample Output	**Sample Output**	**Sample Output**	**Sample Output**
ishaan	-1	-1	hello WORLD

3

Littlest & Biggest Group Reckoning

There is only one ATM near Mozzie's house, he observes a long queue standing in front of the ATM. Due to the withdrawal limit per person per day, people come in groups to withdraw money. Groups come one by one and line up behind the already present queue. Being a curious kid, Mozzie wants to find the Littlest and Biggest group present in the queue, waiting to withdraw the money. Since groups are standing behind each other, one cannot differentiate between different groups and the exact count cannot be given. Can you tell Mozzie, the *Littlest* and *Biggest* group that can be observed in the queue?

Input format

The first line of input contains positive integer ***N***(indicating the total groups in a queue).

The second line contains ***N*** space-separated integers denoting the number of members in each group.

Constraints

1 <= ***N*** < = 1,00,000

Output format

The first line contains the Littlest and Biggest group that are present in the queue.

Sample Input	**Sample Input**	**Sample Input**	**Sample Input**	**Sample Input**
5 6 2 9 4 10	8 8 13 29 31 54 40 37 1	0	25.5	3 -12 6 7
Sample Output	**Sample Output**	**Sample Output**	**Sample Output**	**Sample Output**
2 10	1 54	Invalid	Invalid	Invalid