## 73239. Upper bound -1?

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

Given a sorted array and a target value, return the index if the target is found. If not, return the index where it would be if it were inserted in order.

You may assume no duplicates in the array.

## Input

The first line contains two integers n, m  $(1 \le n \le 10^5, 1 \le m \le 10^9)$  — array size and target value. The next line contains n integers  $a_i$   $(1 \le a_i \le 10^9)$  — elements of array.

## Output

Single integer, answer of problem.

## **Examples**

standard input	standard output
5 15	5
1 3 5 12 14	
2 13	2
6 12	
2 12	2
7 11	
5 12	4
1 6 7 12 13	
3 9	1
7 10 11	