

# PRAYER QUEUE

In Jhonny' class, there are unlimited students of different heights, including Jhonny. But on a specific day there are only  $n$  students are present. Everyday Jhonny remains anxious to find who will stand behind him in the prayer queue, a boy or a girl. He wants his best friend, Kelly, to find the same for him.

Given the height of  $n$  students and Jhonny, too, find the height of student who will stand behind him in the queue.

## Constraints:

- $1 \leq$  number of students,  $n \leq 1000$
- $1 \leq$  height of  $i$ 'th student,  $h_i \leq 10000$  for  $i = \{1, 2, \dots, n\}$
- Each height will be different.
- Students stand in the queue in the increasing order of their height.
- Jhonny is not the longest boy present that day.

## Input

The first line of the input contains  $t$ , number of test case. Then follows  $t$  test cases.

Each test case contains two lines. The first line has two numbers,  $n$   $h$ , the number of students and height of Jhonny.

In the next line there are  $n$  numbers,  $h_1$   $h_2$   $h_3$  ...  $h_n$ , representing the height of all the  $n$  students, including Jhonny's height.

There are about 150 test cases.

## Output

Find the height of the person who will stand behind Jhonny in the queue.

## Example

### Input:

```
3
5 6
4 2 6 8 7
3 2
1 2 3
6 55
3 44 55 11 75 12
```

### Output:

```
7
3
```

Explanation for test case #1:

5 6

4 2 6 8 7

Jhonny's height = 6

The boy with height 7 will stand behind him in the queue.