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## Vector V

V88097\_en

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A **vector V** is a vector that is composed of two parts:

$$v = x_1 x_2 x_3 x_4 \dots x_n y_1 y_2 y_3 \dots y_m$$

such that  $x_1 \dots x_n$  is ordered in a strictly **decreasing** manner and  $y_1 \dots y_m$  is ordered in a strictly **increasing** manner. Furthermore,  $x_n > y_1$ . Finally, we have that  $n, m > 0$ . That is, neither part is empty.

We need to implement the **function** `int picV(const vector<int>& v)` with the following specification:

PRE:  $v$  is a vector  $V$  and  $|v| \geq 3$ .

POST: The position of  $y_1$  in  $v$ .

### Observation

**IMPORTANT:** You only need to submit the requested function, and possibly other necessary actions and functions. However, you must keep the type definitions and `#includes`.

### Input

An undetermined number of vectors  $V$  with the following format: an integer indicating their size, and then the vector  $V$ . Every vector  $V$  has a size greater than or equal to 3.

### Output

The position within the vector where  $y_1$  is.

#### Sample input

```
15
7 6 5 4 3 2 1 2 3 4 5 6 7 8 9

15
15 14 13 12 11 10 9 8 7 6 5 4 3 4 5

15
15 14 13 12 11 10 9 8 7 6 5 4 3 2 5

5
2 1 3 5 7

10
5 4 3 2 1 6 7 18 29 30
```

#### Sample output

```
6
12
13
1
4
```

## **Problem information**

Author : PRO1

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