



Утегенов Батырхан Елембетұлы [ADS-Lab-04]: Submit a solution

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## Submit a solution for B-105587. Get subtree

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

### Problem B: 105587. Get subtree

You are given Binary Search Tree. Your task is to calculate the size of the subtree of the node  $X$ .

Remember, that the subtree of node  $X$  is the set of all nodes whose ancestor is node  $X$ , including it. The size of the subtree is the size of such set.

### Input format

The first line of the input contains an integer  $N$  - number of nodes in Binary Search Tree ( $1 \leq N \leq 10^3$ ).

The second line contains  $N$  integers  $a_i$  - values of nodes in order of insertion to the Binary Search Tree.

The third line contains single integer - value of the node which subtree's size you must calculate.

### Output format

Print the size of the subtree of the given node.

### Examples

Input

```
7
4 2 6 1 3 5 7
4
```

Output

```
7
```

### Submit a solution

Language: g++ - GNU C++ 11.4.0File Choose File No file chosenSend! Send!

### Previous submissions of this problem

Run ID	Time	Size	Problem	Language	Result	Failed test	View source	View report
1878	1006:46:12	1882	B	g++	OK	N/A	<a href="#">View</a>	<a href="#">View</a>

- A
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