



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

Info

Summary

Submissions

Standings

Submit clar

Clars

Settings

Logout [ads23_22B030458]

23:27:51 / RUNNING

A

B

C

D

E

F

G

H

I

J

Submit a solution for C-111632. Christmas Gifts

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

Problem C: 111632. Christmas Gifts

Christmas is coming! Everyone is preparing gifts for their families. The Damir's family is also preparing for this. The Damir's family has many children so the parents decided to buy n various gifts. Parents decided to number these gifts - i -th as a_i . They hang them on Christmas tree in socks, following the form binary search tree. In particular, they insert i -th gift with the value a_i following the rules of binary search tree.

As you know, Damir is the smallest among the whole family. Therefore, parents for the holiday allowed him to pick up his gift first. Damir knew that his gift has number k , but he mistakenly assumed that all the gifts below his gift were also intended for him. Now, parents are confused and want to find out what gifts Damir wants to grab for himself.

Input format

The first line contains one integer n ($1 \leq n \leq 10^3$) - the number of gifts. The second line contains n integers a_i . ($1 \leq a_i \leq 10^3$) The third line contains one integer k ($1 \leq k \leq 10^3$). It is guaranteed that the array has the number k .

Output format

You should output this subtree in pre-order (root, left subtree, right subtree).

Examples

Input

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

Output

```
2 1 3
```

Notes

`\linebreak`

Given the tree:



And the value to search: 2

You should return this subtree:



Submit a solution

Language:

g++ - GNU C++ 11.4.0 ▾

File

Choose File

 No file chosen

Send!

Send!

Previous submissions of this problem

Run ID	Time	Size	Problem	Language	Result	Failed test	View source	View report
1879	1006:46:58	1903	C	g++	OK	N/A	View	View

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J

[ejudge 3.10.3+ \(GIT 6da71ff82\) \(2023-08-02 06:59:26\).](#)

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