

Pre And Succ

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Predecessor and Successor

Easy Accuracy: 46.01% Submissions: 39076 Points: 2

There is BST given with root node with key part as integer only. You need to find the inorder successor and predecessor of a given key. In case, if the either of predecessor or successor is not found print -1.

Input:

The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case contains n denoting the number of edges of the BST. The next line contains the edges of the BST. The last line contains the key.

Output:

Print the predecessor followed by successor for the given key. If the predecessor or successor is not found print -1.

Constraints:

$1 \leq T \leq 100$

$1 \leq n \leq 100$

$1 \leq \text{data of node} \leq 100$

$1 \leq \text{key} \leq 100$

Example:

Input:

2

6

50 30 L 30 20 L 30 40 R 50 70 R 70 60 L 70 80 R

65

6

50 30 L 30 20 L 30 40 R 50 70 R 70 60 L 70 80 R

100

Output:

60 70

80 -1

From <<https://practice.geeksforgeeks.org/problems/predecessor-and-successor/1>>