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

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23:27:11 / **RUNNING**

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

Submit a solution for A-111284. Mountains

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

Problem A: 111284. Mountains

You are going to hike in the mountains. You have written directions (left or right) on a piece of paper, in which direction you need to turn on each of the branches of the path, following which you can reach the peak. In the mountains there are several peaks and you have recorded the path to each peak. Since you are a guide, you need to check the day before the hike which of the recorded paths is available. All paths start at one point at the foothills.

The path is presented in the form of " $RRLLRLR$ ", which means to reach the peak you need to turn right at the beginning, then right again, then left, left, right, left, right. Peak located after last turn and it is possible that it does not exist. You are given all the paths in the mountains that are available in the form of a Binary Search Tree and the paths to the peaks that are written on a piece of paper. You need to tell which of the paths written on the piece of paper is available.
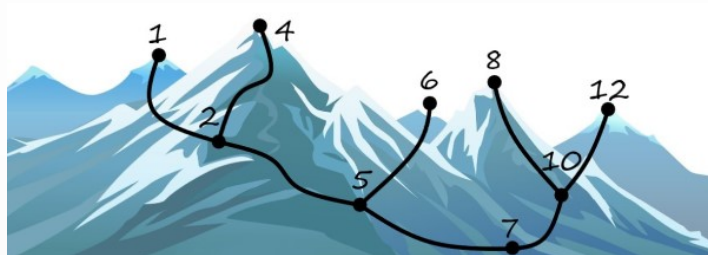
Input format

Given the number N, M ($1 \leq N, M \leq 10^5$)-the number of branches in the available path in the mountains and the number of paths written on a piece of paper. In the next line N integers describe the BST. The following M lines describe the paths $p_1, p_2, p_3 \ldots p_m (2 \leq |p_i| \leq 100)$ written on a piece of paper.

Output format

You need to print M lines where i^{th} line should be " YES " if the path p_i to the peak is available, otherwise " NO ".

Examples

Input

```
9 4
7 10 12 8 5 6 2 1 4
LLL
LRR
RL
RR
```

Output

```
YES
NO
YES
YES
```

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
1877	1006:44:46	1862	A	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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