Round and Round

? Ask Doubt

Time-Limit: 2 sec Score: 0.00/100 Difficulty : ★★★

Memory: 256 MB Accepted Submissions: 100 Relevant For: AZ-202 AZ-301 AZ-201

Description

Bob is standing in a park at (0,0) facing north. He is given a series of instructions to move around the park. The instructions can be:

1. ‘W’: go straight 1 unit
2. ‘L’: turn 90 degrees left
3. ‘R’: turn 90 degrees right

Bob has to perform the given instructions forever. If he is going in a circle forever, print ‘*YES*’. Otherwise, print ‘*NO*’ (without the quotes).

Input Format

The first line of the input contains one integer *T* - the number of test cases. Then *T* test cases follow.
The first line of each test case contains *N* - the length of the input string of instructions.
The second line of each test case contains one string *S* - the series of instructions to move around the park.

Output Format

For each test case, print ‘*YES*’ if Bob is going in a circle forever. Otherwise, print ‘*NO*’. (without the quotes)

Constraints

$1 \le T \le 100$
$1 \le |S| \le 10^5$ where $|S|$ denotes the length of the given series of instructions.

Sample Input 1

Copy

```
3
3
WWW
2
LW
4
WLLW
```

Sample Output 1

Copy

```
NO
YES
YES
```

C++14[GCC]

Submit

```
1
```