

Roomba Invasion

Patrick and Trenton are attempting to take over the world with their fleet of hacked Roombas. In order for their plan to be successful, the Roombas must be in a certain formation. The Roombas must be in a V formation going down a street in order to strike fear into the hearts of their enemies. Your goal is to make a program to tell whether or not a given formation is correct.

Input

The dimensions of the street, given in integers (x, y). The integers will both be non-zero and positive. Then a grid of 'S' chars and 'R' chars, with the 'S' chars being the street and the 'R' chars being the Roombas.

Output

Either "yes" if the formation is in a V-formation, "no" if not.

Sample Input

```
5 6
R S S S S
S R S S S
S S R S S
S S S R S
S S S S R
S S S S S
```

Sample Output

```
yes
```

Sample Input

```
4 3
R S S S
S R S R
S S R S
```

Sample Output

```
yes
```

Sample Input

```
6 3
R S S S R S
S R R R S S
S S R S S S
```

Sample Output

```
no
```

Sample Input

```
1 1
R
```

Sample Output

```
yes
```