A. King of Thieves

In this problem you will meet the simplified model of game King of Thieves.

In a new ZeptoLab game called "King of Thieves" your aim is to reach a chest with gold by controlling your character, avoiding traps and obstacles on your way.

An interesting feature of the game is that you can design your own levels that will be available to other players. Let's consider the following simple design of a level.

A dungeon consists of n segments located at a same vertical level, each segment is either a platform that character can stand on, or a pit with a trap that makes player lose if he falls into it. All segments have the same length, platforms on the scheme of the level are represented as `'*'` and pits are represented as `'.'`.

One of things that affects speedrun characteristics of the level is a possibility to perform a series of consecutive jumps of the same length. More formally, when the character is on the platform number i_1, he can make a sequence of jumps through the platforms $i_1 < i_2 < ... < i_k$, if $i_2 - i_1 = i_3 - i_2 = ... = i_k - i_{k-1}$. Of course, all segments $i_1, i_2, ... i_k$ should be exactly the platforms, not pits.

Let's call a level to be *good* if you can perform a sequence of **four** jumps of the same length or in the other words there must be a sequence $i_1, i_2, ..., i_5$, consisting of **five** platforms so that the intervals between consecutive platforms are of the same length. Given the scheme of the level, check if it is good.

Input

The first line contains integer n ($1 \le n \le 100$) — the number of segments on the level.

Next line contains the scheme of the level represented as a string of n characters `'*'` and `'.'`.

Output

If the level is *good*, print the word `"yes"` (without the quotes), otherwise print the word `"no"` (without the quotes).

Examples

input

```
16
.**.*..*.***.**.
```

output

```
yes
```

input

```
11
.*.*...*.*.
```

output

```
no
```

Note

In the first sample test you may perform a sequence of jumps through platforms $2, 5, 8, 11, 14$.