

B. One Bomb

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

You are given a description of a depot. It is a rectangular checkered field of $n \times m$ size. Each cell in a field can be empty (".") or it can be occupied by a wall ("**").

You have one bomb. If you lay the bomb at the cell (x, y) , then after triggering it will wipe out all walls in the row x and all walls in the column y .

You are to determine if it is possible to wipe out all walls in the depot by placing and triggering **exactly one bomb**. The bomb can be laid both in an empty cell or in a cell occupied by a wall.

Input

The first line contains two positive integers n and m ($1 \leq n, m \leq 1000$) — the number of rows and columns in the depot field.

The next n lines contain m symbols "." and "**" each — the description of the field. j -th symbol in i -th of them stands for cell (i, j) . If the symbol is equal to ".", then the corresponding cell is empty, otherwise it equals "**" and the corresponding cell is occupied by a wall.

Output

If it is impossible to wipe out all walls by placing and triggering exactly one bomb, then print "NO" in the first line (without quotes).

Otherwise print "YES" (without quotes) in the first line and two integers in the second line — the coordinates of the cell at which the bomb should be laid. If there are multiple answers, print any of them.

Examples

input
<pre> 3 4 .*.*. </pre>
output
<pre> YES 1 2 </pre>
input
<pre> 3 3 .* ..* .* </pre>
output
<pre> NO </pre>
input
<pre> 6 5 .* ..* .* ***** .* ..* ..* ..* </pre>
output

Codeforces Round #363 (Div. 2)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.


Start virtual contest

→ Problem tags

implementation

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→ Contest materials

- Announcement 
- Tutorial 