



Find the Bug



by shashank21j

Problem

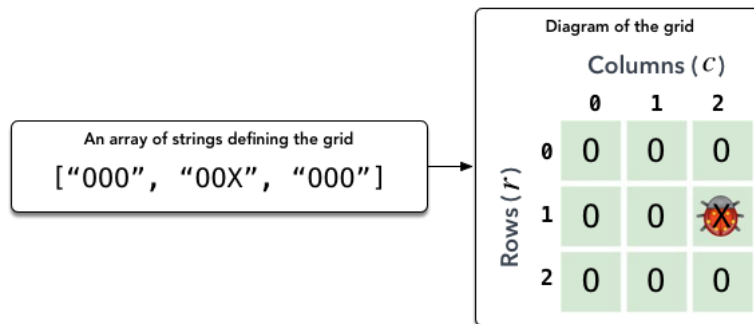
Submissions

Leaderboard

Discussions

Consider an $n \times n$ grid where the top-left coordinate is $(0, 0)$ and the bottom-right coordinate is $(n - 1, n - 1)$. We define the contents of the grid as an array of n strings of length n , where the index r of a string corresponds to a *row* in the grid and the index c of a character in a string corresponds to a column. Each string consists of the characters 0 and/or X, where an 0 denotes an empty cell and an X denotes a cell containing a bug.

For example, if $grid = ["000", "00X", "000"]$, then the grid has a bug at location $(1, 2)$ and looks like this:



Given an array of strings defining a grid with 1 bug in it, print the bug's location in the format r, c (where r is the row and c is the column).

Input Format

The first line contains an integer denoting n (the length and width of the grid).

Each line r of the n subsequent lines contains a string of n characters describing row r in the grid.

Constraints

- $1 \leq n \leq 10^3$

Output Format

Print the bug's location in the format r, c , where r is its row and c is its column.

Note: If using the code stubs in the editor, return an array of two integers where index 0 contains the value of r and index 1 contains the value of c .

Sample Input 0

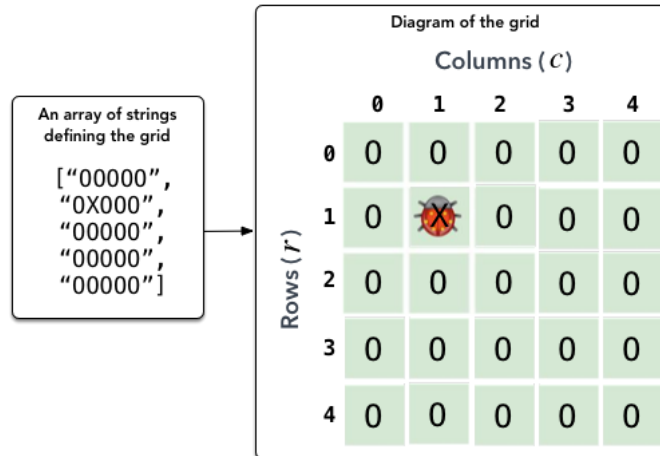
```
5
00000
0X000
00000
00000
00000
```

Sample Output 0

```
1,1
```

Explanation 0

The diagram below depicts the array and grid:



The bug is located at the intersection of row $r = 1$ and column $c = 1$, so we print 1,1.

f t in

Contest ends in a day

Submissions: 1709

Max Score: 10

Difficulty: Easy

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☆☆☆☆☆

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Current Buffer (saved locally, editable)

C#

```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static int[] findTheBug(string[] grid){
8         // Complete this function
9         for (int i = 0; i < grid.Length; i++)
10         {
11             for (int j = 0; j < grid[i].Length; j++)
12             {
13                 if (grid[i][j] == 'X')
14                 {
15                     return new int[] { i, j };
16                 }
17             }
18         }
19         return new int[] { -1, -1 };
20     }
21
22     static void Main(String[] args) {
23         int n = Convert.ToInt32(Console.ReadLine());
24         string[] grid = new string[n];
25         for(int grid_i = 0; grid_i < n; grid_i++){
26             grid[grid_i] = Console.ReadLine();
27         }
28         // Return an array containing [r, c]
29         int[] result = findTheBug(grid);
30         Console.WriteLine(String.Join(", ", result));
31
32     }
```

```
33     }  
34 }  
35
```

Line: 19 Col: 41

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Test against custom input

Run Code

Submit Code

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