**Question :** You are given a 2D grid which will contain only the characters **'s'** , **'.'** , **'x'** and **'e'** . The size of the grid is N*M squares, where 's' means where you should start, '.' means there is a path, 'x' means there is no path and 'e' means where you should stop. You can walk left, right, up, and down through the cell of squares. You need to say **"YES"** if you can go from 'S' to 'E'. Otherwise print **"NO"** . There will be exactly one **'s'** and one **'e'** . If there is no path, print **-1** .

**Note** : Try to solve this using both BFS and DFS as you don't need the shortest distance.

| Sample Input | Sample Output |
|---|---|
| 6 5<br>.s.x.<br>...x.<br>..x..<br>..x..<br>..xex<br>..... | YES |
| 5 5<br>.s.x.<br>...x.<br>..x..<br>..x..<br>..xex | NO |
| 5 5<br>.....<br>.....<br>.x..e<br>s.x..<br>....x | YES |

**Question :** You are given a 2D grid which will contain only the characters **'s'** , **'.'** , **'x'** and **'e'** . The size of the grid is N*M squares, where 's' means where you should start, '.' means there is a path, 'x' means there is no path and 'e' means where you should stop. You can walk left, right, up, and down through the cell of squares. You need to tell the minimum number of steps you need to go from 'S' to 'E'. There will be exactly one **'s'** and one **'e'** . If there is no path, print **-1** .

| Sample Input | Sample Output |
|---|---|
| 6 5<br>.s.x.<br>...x.<br>..x..<br>..x..<br>..xex<br>..... | 8 |
| 5 5<br>.s.x.<br>...x.<br>..x..<br>..x..<br>..xex | -1 |
| 5 5<br>.....<br>.....<br>.x..e<br>s.x..<br>....x | 7 |

**Question :** You are given a 2D grid which will contain only the characters **'s'** , **'.'** , **'x'** and **'e'** . The size of the grid is N*M squares, where 's' means where you should start, '.' means there is a path, 'x' means there is no path and 'e' means where you should stop. You can walk left, right, up, and down through the cell of squares. You need to tell the minimum number of steps you need to go from 'S' to 'E' and also you need to print the path in the form of **R(Right), L(Left), U(Up)** and **D(Down)** from source to destination. There will be exactly one **'s'** and one **'e'** . If there is no path, print **-1** .

| Sample Input | Sample Output |
|---|---|
| 6 5<br>.s.x.<br>...x.<br>..x..<br>..x..<br>..xex<br>..... | 8<br>DDDDDRRU |
| 5 5<br>.s.x.<br>...x.<br>..x..<br>..x..<br>..xex | -1 |
| 5 5<br>.....<br>.....<br>.x..e<br>s.x..<br>....x | 7<br>UURRRRD |

## More Problems

1. CSES - Counting Rooms
2. CSES - Building Roads
3. Flood Fill - LeetCode
4. Max Area of Island - LeetCode