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657. Robot Return to Origin

Solved

Easy | Topics | Companies

There is a robot starting at the position `(0, 0)`, the origin, on a 2D plane. Given a sequence of its moves, judge if this robot **ends up at** `(0, 0)` after it completes its moves.

You are given a string `moves` that represents the move sequence of the robot where `moves[i]` represents its i^{th} move. Valid moves are `'R'` (right), `'L'` (left), `'U'` (up), and `'D'` (down).

Return `true` *if the robot returns to the origin after it finishes all of its moves, or* `false` *otherwise.*

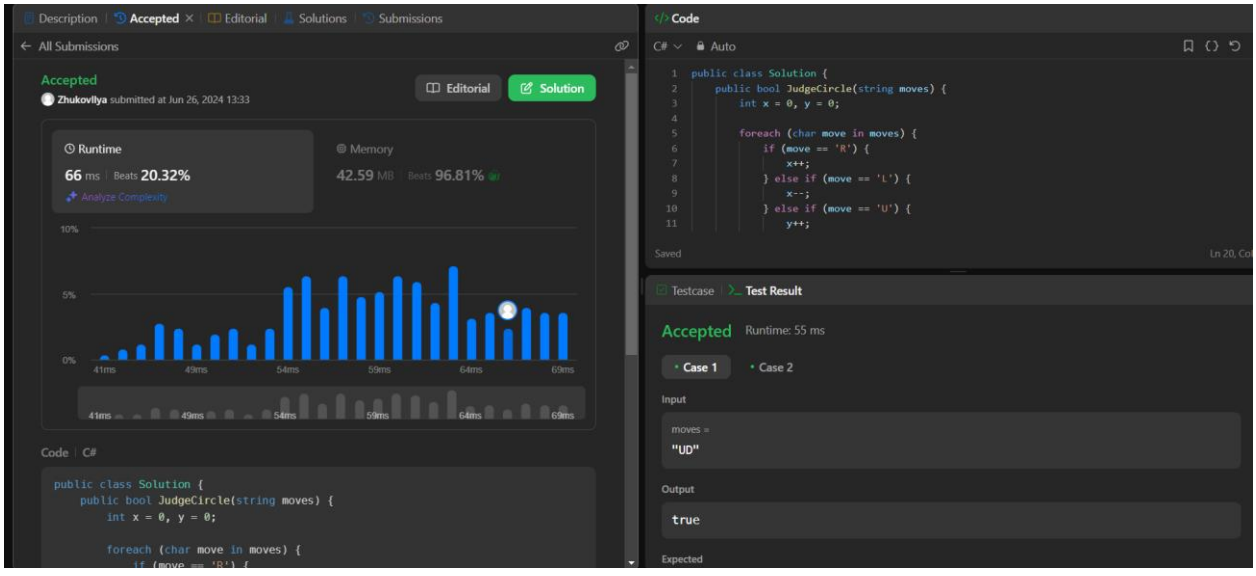
Note: The way that the robot is "facing" is irrelevant. `'R'` will always make the robot move to the right once, `'L'` will always make it move left, etc. Also, assume that the magnitude of the robot's movement is the same for each move.

Example 1:

> **Input:** moves = "UD"
> **Output:** true
> **Explanation:** The robot moves up once, and then down once. All moves have the same magnitude, so it ended up at the origin where it started. Therefore, we return true.

Example 2:

> **Input:** moves = "LL"
> **Output:** false



Код:

```
public class Solution
{
    public bool JudgeCircle(string moves)
    {
        int x = 0, y = 0;
```

```
        foreach (char move in moves)
        {
            if (move == 'R')
            {
                x++;
            }
            else if (move == 'L')
            {
                x--;
            }
            else if (move == 'U')
            {
                y++;
            }
            else if (move == 'D')
            {
                y--;
            }
        }

        return x == 0 && y == 0;
    }
}
```