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# 942. DI String Match

Solved

Easy | Topics | Companies

A permutation `perm` of `n + 1` integers of all the integers in the range `[0, n]` can be represented as a string `s` of length `n` where:

- `s[i] == 'I'` if `perm[i] < perm[i + 1]`, and
- `s[i] == 'D'` if `perm[i] > perm[i + 1]`.

Given a string `s`, reconstruct the permutation `perm` and return it. If there are multiple valid permutations perm, return **any of them**.

**Example 1:**

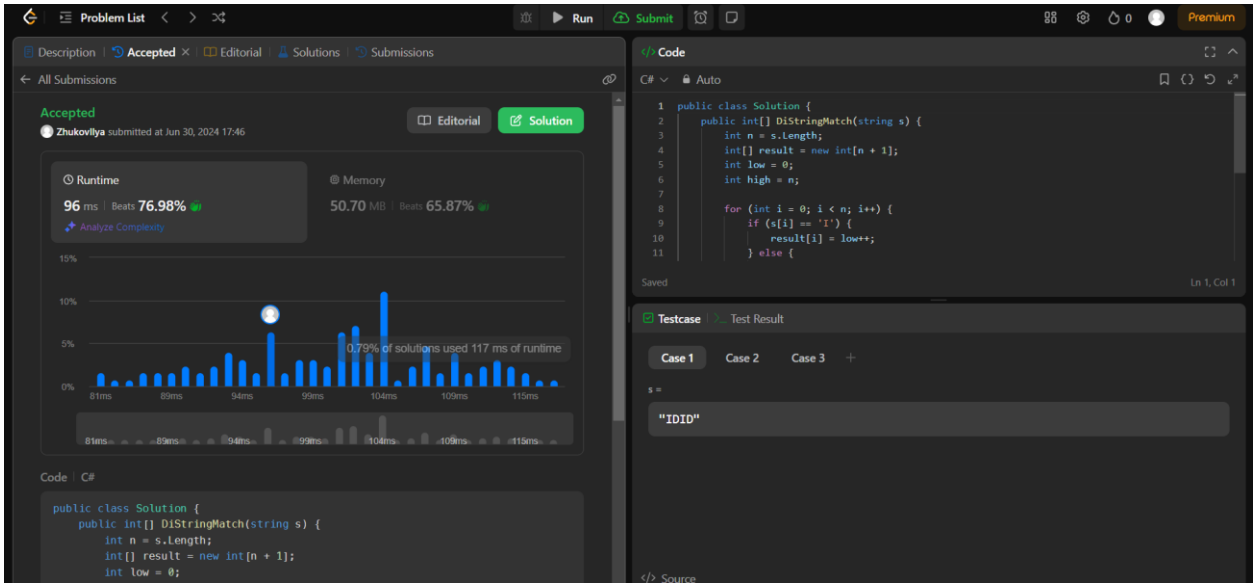
```
Input: s = "IDID"
Output: [0,4,1,3,2]
```

**Example 2:**

```
Input: s = "III"
Output: [0,1,2,3]
```

**Example 3:**

```
Input: s = "DDI"
Output: [3,2,0,1]
```




Код:

```
public class Solution
{
    public int[] DiStringMatch(string s)
    {
        int n = s.Length;
        int[] result = new int[n + 1];
```

```
        int low = 0;
        int high = n;

        for (int i = 0; i < n; i++)
        {
            if (s[i] == 'I')
            {
                result[i] = low++;
            }
            else
            {
                result[i] = high--;
            }
        }
        result[n] = low; // Последний элемент будет равен оставшемуся значению

        return result;
    }
}
```