# **DI String Match**

#### Easy

Given a string S that **only** contains "I" (increase) or "D" (decrease), let N = S.length.

Return **any** permutation A of [0, 1, ..., N] such that for all i = 0, ..., N-1:

```
• If S[i] == "I", then A[i] < A[i+1]
```

```
• If S[i] == "D", then A[i] > A[i+1]
```

### Example 1:

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

## Example 2:

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

# Example 3:

```
Input: "DDI"

Output: [3,2,0,1]
```

### Note:

```
1. 1 <= S.length <= 10000
```

2. s only contains characters "I" or "D".