484. Find Permutation

Description

A permutation `perm` of `n` integers of all the integers in the range `[1, n]` can be represented as a string `s` of length `n - 1` 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 lexicographically smallest permutation `perm` and return it.

Example 1:

```
Input: s = "I"
Output: [1,2]
Explanation: [1,2] is the only legal permutation that can represented by s, where the number 1 and 2 construct an increasing relationship.
```

Example 2:

```
Input: s = "DI"
Output: [2,1,3]
Explanation: Both [2,1,3] and [3,1,2] can be represented as "DI", but since we want to find the smallest lexicographical permutation, you should return [2,1,3]
```

Constraints:

- `1 <= s.length <= 10^5`
- `s[i]` is either `'I'` or `'D'`.