

Problem Challenge 1

We'll cover the following

- Rearrange String K Distance Apart (hard)
- Try it yourself

Rearrange String K Distance Apart (hard)

Given a string and a number 'K', find if the string can be rearranged such that the same characters are at least 'K' distance apart from each other.

Example 1:

```
Input: "mmp", K=2
Output: "mpmp" or "pmpm"
Explanation: All same characters are 2 distance apart.
```

Example 2:

```
Input: "Programming", K=3
Output: "rgmPrmgiano" or "gmrngmrPoa" or "gmrPagimnor" and a few more
Explanation: All same characters are 3 distance apart.
```

Example 3:


```
Input: "aab", K=2
Output: "aba"
Explanation: All same characters are 2 distance apart.
```


Example 4:


```
Input: "aappa", K=3
Output: ""
Explanation: We cannot find an arrangement of the string where any two 'a' are 3 distance apart.
```


Try it yourself

Try solving this question here:

 Java

 Python3

 JS


 C++

```
1 import java.util.*;
2
3 class RearrangeStringKDistanceApart {
4
5     public static String reorganizeString(String str, int k) {
6         // TODO: Write your code here
7         return "";
8     }
9
10    public static void main(String[] args) {
11        System.out.println("Reorganized string: " +
12            RearrangeStringKDistanceApart.reorganizeString("mmp", 2));
13        System.out.println("Reorganized string: " +
14            RearrangeStringKDistanceApart.reorganizeString("Programming", 3));
15        System.out.println("Reorganized string: " +
16            RearrangeStringKDistanceApart.reorganizeString("aab", 2));
17        System.out.println("Reorganized string: " +
18            RearrangeStringKDistanceApart.reorganizeString("aappa", 3));
19    }
20 }
21
```


Run

Save

Reset



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