

## 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: "mpm" or "pmp"
Explanation: All same characters are 2 distance apart.
```

Example 2:

```
Input: "Programming", K=3
Output: "rgmPrmiano" 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 def reorganize_string(str, k):
2     # TODO: Write your code here
3     return ""
4
5 def main():
6     print("Reorganized string: " + reorganize_string("mmp", 2))
7     print("Reorganized string: " + reorganize_string("Programming", 3))
8     print("Reorganized string: " + reorganize_string("aab", 2))
9     print("Reorganized string: " + reorganize_string("aappa", 3))
10
11
12 main()
13
```

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Rearrange String (hard)

Solution Review: Problem Challenge 1

 Completed

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