

5749. Minimum Adjacent Swaps to Reach the Kth Smallest Number

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You are given a string `num` , representing a large integer, and an integer `k` .

We call some integer **wonderful** if it is a **permutation** of the digits in `num` and is **greater in value** than `num` . There can be many wonderful integers. However, we only care about the **smallest-valued** ones.

- For example, when `num = "5489355142"` :
 - The 1st smallest wonderful integer is `"5489355214"` .
 - The 2nd smallest wonderful integer is `"5489355241"` .
 - The 3rd smallest wonderful integer is `"5489355412"` .
 - The 4th smallest wonderful integer is `"5489355421"` .

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Return the **minimum number of adjacent digit swaps** that needs to be applied to `num` to reach the `kth` **smallest wonderful** integer.

The tests are generated in such a way that `kth` smallest wonderful integer exists.

Example 1:

Input: `num = "5489355142"`, `k = 4`
Output: `2`
Explanation: The 4th smallest wonderful number is `"5489355421"`. To get this number:
- Swap index 7 with index 8: `"5489355142"` -> `"5489355412"`
- Swap index 8 with index 9: `"5489355412"` -> `"5489355421"`

Example 2:

Input: `num = "11112"`, `k = 4`
Output: `4`
Explanation: The 4th smallest wonderful number is `"21111"`. To get this number:
- Swap index 3 with index 4: `"11112"` -> `"11121"`
- Swap index 2 with index 3: `"11121"` -> `"11211"`
- Swap index 1 with index 2: `"11211"` -> `"12111"`
- Swap index 0 with index 1: `"12111"` -> `"21111"`

Example 3:

Input: `num = "00123"`, `k = 1`
Output: `1`
Explanation: The 1st smallest wonderful number is `"00132"`. To get this number:
- Swap index 3 with index 4: `"00123"` -> `"00132"`

- Constraints:
- `2 <= num.length <= 1000`
 - `1 <= k <= 1000`
 - `num` only consists of digits.

JavaScript

1

2

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```
/**
 * @param {string} num
 * @param {number} k
 * @return {number}
 */
var getMinSwaps = function(num, k) {
};
```