Leet Code

Day-37 Q-01 Permutation Sequence

The set `[1,2,3,...,n]` contains a total of *n*! unique permutations.

By listing and labeling all of the permutations in order, we get the following sequence for *n* = 3:

1. `"123"`
2. `"132"`
3. `"213"`
4. `"231"`
5. `"312"`
6. `"321"`

Given *n* and *k*, return the *k*th permutation sequence.

Note:

- Given *n* will be between 1 and 9 inclusive.
- Given *k* will be between 1 and *n*! inclusive.

Example 1:

```
Input: n = 3, k = 3

Output: "213"
```

Example 2:

```
Input: n = 4, k = 9

Output: "2314"
```