Problem 6: Given **N** and **K**, where N is the sequence of numbersfrom **1 to N([1,2,3….. N])** find the **Kth permutation sequence**.

```python
def getPermutation(N, K):
    numbers = list(range(1, N+1))
    result = ''

    def findPermutation(n, k):
        nonlocal numbers, result
        if n == 1:
            result += str(numbers[0])
            return

        factorial = 1
        for i in range(2, n):
            factorial *= i

        index = (k - 1) // factorial
        result += str(numbers[index])
        numbers.pop(index)
        k -= index * factorial

        findPermutation(n - 1, k)
```

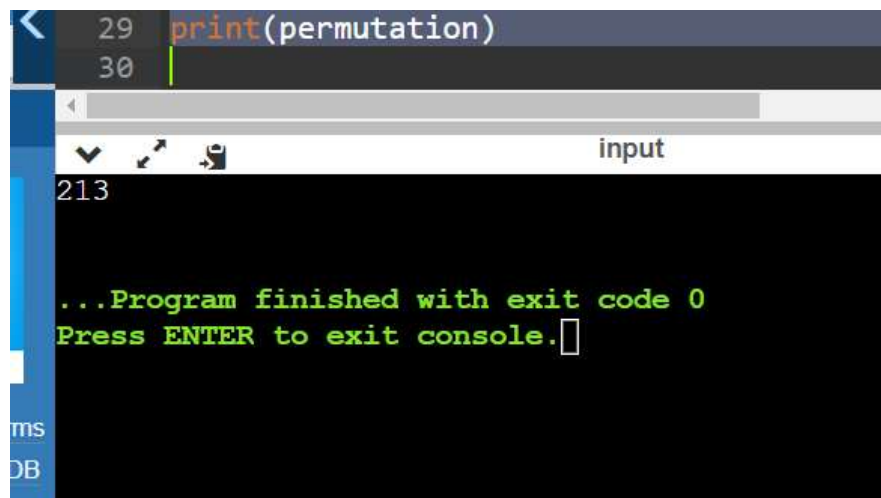findPermutation(N, K)

return result

N = 3

K = 3

permutation = getPermutation(N, K)

print(permutation)

```
29  print(permutation)
30  |
```

input

```
213


...Program finished with exit code 0
Press ENTER to exit console.
```