72. 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 kth permutation sequence. Example 1: Input: n = 3, k = 3Output: "213" AIM: To find the permutation sequence PROGRAM: import math def getPermutation(n, k): nums = [str(i) for i in range(1, n + 1)]result = []k -= 1 for i in range(n): index = k // math.factorial(n - 1 - i)result.append(nums.pop(index)) k % = math.factorial(n - 1 - i)return ".join(result) n = 3k = 3print(getPermutation(n, k))

213 OUTPUT:

TIME COMPLEXITY: O(n^2)