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Kth Permutation – easy version





? Ask Doubt

 Time-Limit: 1 sec

 Score: 100.00/100

Difficulty : 

 Memory: 256 MB

 Accepted Submissions: 100

Relevant For:

AZ-201

Description

For the given n , consider the array $A = \{1, 2, \dots, n\}$. There exist $n!$ unique permutations of the array. When we list all these $n!$ permutations in lexicographically order, your task is to find k th permutation in that list.

Input Format

The first line contains two space-separated integers n and k .

Output Format

Print n space-separated integers, denoting the k th permutation.

Constraints

$1 \leq n \leq 9$
 $1 \leq k \leq n!$

Sample Input 1

Copy

```
3 4
```

Sample Output 1

Copy

```
2 3 1
```

Sample Input 2

Copy

```
4 9
```

Sample Output 2

Copy

C++14[GCC] ▾



1

Submit