

Permutations of a given string

Basic Accuracy: 49.85% Submissions: 13929 Points: 1

Given a string S. The task is to print all permutations of a given string.

Example 1:

Input: ABC

Output:

ABC ACB BAC BCA CAB CBA

Explanation:

Given string ABC has permutations in 6 forms as ABC, ACB, BAC, BCA, CAB and CBA .

Example 2:

Input: ABSG

Output:

ABGS ABSG AGBS AGSB ASBG ASGB BAGS

BASG BGAS BGSA BSAG BSGA GABS GASB

GBAS GBSA GSAB GSBA SABG SAGB SBAG

SBGA SGAB SGBA

Explanation:

Given string ABSG has 24 permutations.

Your Task:

You don't need to read input or print anything. Your task is to complete the function **find_permutaion()** which takes the string S as input parameter and returns a vector of string in lexicographical order.

Expected Time Complexity: $O(n! * n)$

Expected Space Complexity: $O(n)$

Constraints:

$1 \leq \text{length of string} \leq 5$

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