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Permutations of a given string

Submissions: 82773 (/problem_submissions.php?pid=382) Accuracy: 32.48% Difficulty: Basic
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Problems

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

Input:

The first line of input contains an integer **T**, denoting the number of test cases.
Each test case contains a single string **S** in capital letter.

Output:

For each test case, print all permutations of a given string **S** with single space and all permutations should be in lexicographically increasing order.

Constraints:

$$1 \leq T \leq 10$$

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

Example:

Input:

2

ABC

ABSG

Output:

ABC ACB BAC BCA CAB CBA

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:

Testcase 1: Given string ABC has permutations in 6 forms as ABC, ACB, BAC, BCA, CAB and CBA .

**** For More Input/Output Examples Use 'Expected Output' option ****

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