**DCP-59: Permutation**[**Back to All Problems**](https://www.devskill.com/CodingProblems/)

**Easy** Math > Counting

You are given a string. You have to answer how many permutations are possible of that string. Suppose the string is "aab", then the 3 possible permutations are "aab", "aba" and "baa".

**Input:**

Input starts with an integer **T (1<=100000)**, denoting the number of test cases. Each of next T lines describes a new test case. Each case contains a string of lower case letters not more than 20 characters.

**Output:**

You should output T lines each of which indicates the answer for the corresponding query. Check the sample output for clarification.

**Sample Input**

2

ab

aab

**Sample Output**

2

3