

DCP-59: Permutation [Back to All Problems](#)

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** ($1 \leq T \leq 100000$), 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
```