

C - Words in a lab



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### **Problem Statement**

In a research lab, scientists are studying a particular sequence of letters, represented by the string *T*. They are interested in finding out how many unique words they can form by rearranging any non-empty, not necessarily contiguous subsequence of *T*.

Since the number of possible words could be very large, they need your help to calculate the total number modulo 998244353.

Can you help the researchers determine the number of distinct words?

### **Constraints**

• *T* is a string of length 1 and 5000 (inclusive) consisting of lowercase English letters.

# Input

Input is given from Standard Input in the following format:

T

# Output

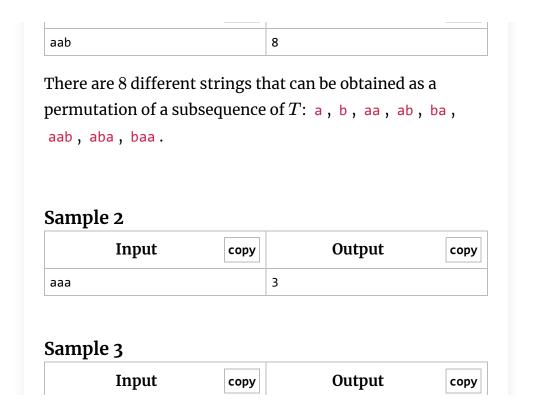
Print the number of different strings that can be obtained as a permutation of a subsequence of T, modulo 998244353.

# Sample 1

Input copy Output copy



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