

Problem B: Text analysis

Time limit: 2 sec.

Problem Description

Your task is to write a program which performs a simple analysis of a given text and find the letters of most frequent occurrence. Upper and lower case letters in the input are to be considered the same. No other characters must be counted. If more than one letter is of the most frequent occurrence, then all of them should be output in the order of ascending ASCII code.

For example, if the input is "This. Is. A. test.", both the letters 's' and 't' appear three times, and they appear more times than others. Note '.' Appear four times but we only count English letters. So the output should be "ST" since 'S' has a smaller ASCII code than 'T'.

Input File Format

The first line contains an integer n which indicates the number of test cases. Each of the next n lines is a test case. The next n lines will contain zero or more characters (possibly including whitespace). This is the text which must be analyzed.

Output Format

Each test case is output in one line. Each line of output contains the uppercase letters of the letters that appears most times.

Sample

Sample Input	Sample Output
3 This is a test. Count me 1 2 3 4 5. Wow!!!! Is this question easy?	ST CEMNOTU S