**Vertical Histogram**

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| --- | --- | --- |
| **Time Limit:** 1000MS |  | **Memory Limit:** 65536K |
|  |  |  |

**Description**

Write a program to read four lines of upper case (i.e., all CAPITAL LETTERS) text input (no more than 72 characters per line) from the input file and print a vertical histogram that shows how many times each letter (but not blanks, digits, or punctuation) appears in the all-upper-case input. Format your output exactly as shown.

**Input**

\* Lines 1..4: Four lines of upper case text, no more than 72 characters per line.

**Output**

\* Lines 1..??: Several lines with asterisks and spaces followed by one line with the upper-case alphabet separated by spaces. Do not print unneeded blanks at the end of any line. Do not print any leading blank lines.

**Sample Input**

THE QUICK BROWN FOX JUMPED OVER THE LAZY DOG.

THIS IS AN EXAMPLE TO TEST FOR YOUR

HISTOGRAM PROGRAM.

HELLO!

**Sample Output**

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

**Source**

[USACO 2003 February Orange](http://poj.org/searchproblem?field=source&key=USACO+2003+February+Orange)