

Most Common



You are given a string S .

The string contains only lowercase English alphabet characters.

Your task is to find the top three most common characters in the string S .

Input Format

A single line of input containing the string S .

Constraints

- $3 < \text{len}(S) \leq 10^4$

Output Format

Print the three most common characters along with their occurrence count each on a separate line.

Sort output in descending order of occurrence count.

If the occurrence count is the same, sort the characters in ascending order.

Sample Input

```
aabbbccde
```

Sample Output

```
b 3
a 2
c 2
```

Explanation

Here, b occurs **3** times. It is printed first.

Both a and c occur **2** times. So, a is printed in the second line and c in the third line because a comes before c .

Note: The string S has at least **3** distinct characters.