You are given a string \$\$\$.

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 < len(S) < 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.