



Practice > Python > Collections > Company Logo

Company Logo ☆

57/115 challenges solved

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Problem

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A newly opened multinational brand has decided to base their company logo on the three most common characters in the company name. They are now trying out various combinations of company names and logos based on this condition. Given a string s , which is the company name in lowercase letters, your task is to find the top three most common characters in the string.

- Print the three most common characters along with their occurrence count.
- Sort in descending order of occurrence count.
- If the occurrence count is the same, sort the characters in alphabetical order.

For example, according to the conditions described above,

GOOGLE would have its logo with the letters **G, O, E**.

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 alphabetical order.

Sample Input 0

```
aabbbccde
```

Sample Output 0

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

Explanation 0

Author

DOSHI

Difficulty

Medium

Max Score

30

Submitted By

11884

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aaabbbccde

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* in the alphabet.

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

Current Buffer (saved locally, editable) Python 3

```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8  from collections import Counter, OrderedDict
9
10
11
12 if __name__ == '__main__':
13     class OrderedCounter(Counter, OrderedDict):
14         pass
15         [print(*c) for c in OrderedCounter(sorted(input())).most_common(3)]
16
17
```

Line: 12 Col: 27

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code



You have earned 30.00 points!

57/115 challenges solved.

50%

Congratulations

You solved this challenge. Would you like to challenge your friends?



Next
Challenge

✓ Testcase 0

✓ Testcase 1

✓ Testcase 2

✓ Testcase 3

6 Testcases ✓

Input (stdin)

[Download](#)

Expected Output

[Download](#)**aabbbccde****b 3****a 2****c 2**

Compiler Message

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