



## Compress the String! ★

48/115 challenges solved

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Your Compress the String! submission got 20.00 points.

مشاركة

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Problem

Submissions

Leaderboard

Editorial

In this task, we would like for you to appreciate the usefulness of the `groupby()` function of `itertools`. To read more about this function, [Check this out](#).

You are given a string  $S$ . Suppose a character ' $c$ ' occurs consecutively  $X$  times in the string. Replace these consecutive occurrences of the character ' $c$ ' with  $(X, c)$  in the string.

For a better understanding of the problem, check the explanation.

**Input Format**

A single line of input consisting of the string  $S$ .

**Output Format**

A single line of output consisting of the modified string.

**Constraints**

All the characters of  $S$  denote integers between 0 and 9.

$$1 \leq |S| \leq 10^4$$

**Sample Input**

1222311

**Sample Output**

(1, 1) (3, 2) (1, 3) (2, 1)

**Explanation**

First, the character 1 occurs only once. It is replaced by (1, 1). Then the character 2 occurs three times, and it is replaced by (3, 2) and so on.

Also, note the single space within each compression and between the compressions.

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Language

Python 3



```
1 from itertools import groupby
2 for i,j in groupby(input()):
3     # print(i,list(j))
4     print(tuple([len(list(j)),int(i)]),end=" ")
```

Line: 4 Col: 50

Upload Code as File

Test against custom input

Run Code

Submit Code

You have earned 20.00 points!

48/115 challenges solved.

42%



Congratulations



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

Next Challenge

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Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

Download

1 1222311

Expected Output

Download

1 (1, 1) (3, 2) (1, 3) (2, 1)