



Compress the String! ★

93/115 challenges solved

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Your Compress the String! submission got 20.00 points.

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Problem

Submissions

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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
3 if __name__ == '__main__':
4     s = input()
5
6     agrupacion = groupby(s)
7
8     for a in agrupacion:
9         ocurrencia = tuple(a[1])
10
11     resultado = ''
12     for a in agrupacion:
13         resultado += str(len(a[1])) + str(a[1]) + ' '
14     print(resultado)
```

12

Line: 12 Col: 1

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

You have earned 20.00 points!

93/115 challenges solved.

81%



Congratulations

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

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Compiler Message

Success

Input (stdin)

1 1222311

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Expected Output

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

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