

# Compress the String! ★

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Problem

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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)

Author: anuj\_95

Difficulty: Medium

Max Score: 20

Submitted By: 59391

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Change ThemePython 3

```
1 from itertools import groupby
2
3 S = str(input())
4 T = [list(g) for k, g in groupby(S)]
5
6 for i in T:
7     print(f"{len(i), int(i[0])} ",end="")
8
```

Line: 8 Col: 1

## Congratulations

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Compiler Message

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Input (stdin)

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1 1222311

Expected Output

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