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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 Theme Python 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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✓ 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)

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1 1222311

Expected Output

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