

Your Compress the String! submission got 20.00 points.

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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)
```

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.

Author

Difficulty

Max Score

Submitted By

anuj_95

Medium

20

55059

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Python 3

```
1 # Enter your code here. Read input from STDIN. Print output to
2 STDOUT
3 from itertools import groupby
4 n=input()
5 a={}
6 for k,v in groupby(n):
7     tup=len(list(v)),int(k)
8     print(tuple(tup),end=' ')
9     #print(len(list(v)),k)
10
```

Line: 10 Col: 1

Upload Code as File

Test against custom input

Run Code

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Python *****

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Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Test case 7

Test case 8

Test case 9

Test case 10

Test case 11

Test case 12

Compiler Message

Success

Input (stdin)

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1 1222311

Expected Output

Download

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