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Practice > Python > Itertools > Compress the String!

Compress the String! ☆

56/115 challenges solved
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Problem	Submissions	Leaderboard	Discussions	Editorial
		ciate the usefulness of th	e groupby() function of	<i>itertools</i> . To
read more about th	nis function, Check this o	out.		
_		ter ' c ' occurs consecutive	_	. Replace
these consecutive of	occurrences of the chara	acter ' c ' with $(X,\;c)$ in t	he string.	
For a better unders	tanding of the problem	, check the explanation.		
Input Format				
A single line of inpu	it consisting of the strin	g S .		
Output Format				
A single line of outp	out consisting of the mo	odified string.		
Constraints				
All the characters o	f $m{S}$ denote integers bet	ween $oldsymbol{0}$ and $oldsymbol{9}$.		
$1 \le \mid S \mid \le 10^4$				
Sample Input				
1222311				
Sample Output				
(1, 1) (3, 2)	(1, 3) (2, 1)			
Explanation				
First, the character	$oldsymbol{1}$ occurs only once. It is	replaced by $(\mathbf{1,\ 1})$. The	en the character $oldsymbol{2}$ occur	s three
times, and it is repl	aced by $(3,\ 2)$ and so c	on.		
Also, note the singl	e space within each con	npression and between t	he compressions.	

Author anuj_95 Difficulty Medium Max Score 20 Submitted By 15802 NEED HELP? View discussions **W** View editorial View top submissions RATE THIS CHALLENGE 公公公公公 MORE DETAILS ■ Download problem statement ■ Download sample test cases Suggest Edits f 💆 in

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Current Buffer (saved locally, editable) Python 3 ∨ NA (S)

from itertools import groupby s=input()

y for k,g in groupby(s):
g=list(g)
print("({0}, {1})".format(len(g),g[0]),end=" ")
```

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