# **Compress the String!**

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.

$$1 \le |S| \le 10^4$$

## 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.