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● EASY

● Max Score: 30 Points

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## Compress String

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We are given a string with repeated characters. Your task is to print the compressed string i.e. by inserting the frequency of each unique character after it and also eliminating all repeated characters.

### Input Format

First line contains string `str`

### Output Format

Print the compressed string.

### Example 1

Input

`AAACCCBBD`

Output

`A3C3B2D1`

Explanation

Here, character A has frequency 3 , C has frequency 3, B has 2 and D 1.

###Example 2

Input

ABCD

Output

A1B1C1D1

Explanation

Here, all the characters have only 1 frequency.

## Constraints

$1 \leq \text{sizeof(String)} \leq 10^6$

All characters of String are upper case letters i.e. (A-Z)

Sum of size of Strings over all testcases is  $\leq 10^6$

### Topic Tags

- **Strings**

# My code

```
// n java
import java.util.*;
import java.lang.*;
```

```
import java.io.*;

public class Main
{
    public static void main (String[] args) throws
    java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        String str=s.next();
        char flag =str.charAt(0);
        int c=1;
        System.out.print(flag);
        for(int i=1;i<str.length();i++)
        { char ch=str.charAt(i);
        if(ch==flag){ c++;}
        else{ System.out.print(c+""+ch);c=1;flag=ch;}

        }
        System.out.print(c);

    }
}
```