- **MEDIUM**
- **Max Score: 30 Points**
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String And Its Frequency

Given a string `str` with lowercase english alphabets.Your have to print a string in which, with each character its frequency is written in adjacent.

Note: In the output string, distinct characters with their respective frequencies should be in order of occurrence as in given input `str`

Input Format

The first and only line contains the given string `str` with lower case english alphabets

Output Format

Print a string in which each character frequency is written in adjacent.

Example 1

Input

`abbhuabcfghh`

Output

`a2b3h3u1c1f1g1`

Explanation

'a' occurs in the string a total of 2 times so we write a2 then 'b' occurs a total of 3 times so next we write b3 and so on

Example 2

Input

`a`

Output

`a1`

Explanation

'a' occurs in the string a total of 1 time only.

Constraints

1 <= |str| <= 10^5

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
```

```java
{
        //your code here
Scanner s=new Scanner(System.in);
String str=s.next();
for(int i=0;i<str.length();i++)
  {
    char ch=str.charAt(i);
    int f=0;//flag
    for(int j=0;j<i;j++)
      {
        char c=str.charAt(j);
       if(ch==c) {f=1;break;}
      }
     if(f==0)
     {
       int count=0;
       System.out.print(ch);
        for(int k=i;k<str.length();k++)
          {
            char c=str.charAt(k);
            if(c==ch)count++;
          }
          System.out.print(count);
      }
  }
}
```

```
        }
}
```