

<https://course.acciojob.com/idle?question=94f702de-a14a-48e3-8b2a-bb9a026c8f99>

● EASY

● Max Score: 30 Points

Character Frequencies

Given a string A containing only lowercase characters. Find the frequencies of the characters in order of their occurrence.

Input Format

First and only line contains the string A.

Output Format

In the first line print a single integer representing the size of the frequency array.

In the second line, print the array of integers representing the frequencies of characters in order of their occurrence in the input string.

Example 1

Input

```
acciojob
```

Output

```
6
```

```
1 2 1 2 1 1
```

Explanation

Characters in their order of occurrence and frequencies are {'a', 1}, {'c', 2}, {'i', 1}, {'o', 2}, {'j', 1}, {'b', 1}.

Example 2

Input

characterfrequency

Output

```
11
3 1 2 3 1 3 1 1 1 1 1
```

Constraints

$1 \leq |A| \leq 10^5$

Topic Tags

- Strings

My code

// in 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();
```

```

int arr[]=new int[str.length()];
int p=-1;
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(c==ch){f=1;break;}
    }
    if(f==0)
    {
        int count=0;
        for(int k=i;k<str.length();k++)
        {
            char c=str.charAt(k);
            if(ch==c) count++;
        }
        arr[++p]=count;
    }
}
System.out.println(p+1);
for(int i=0;i<=p;i++)
System.out.print(arr[i]+" ");

}
}

```