

<https://course.acciojob.com/idle?question=1a8e04d7-f665-46e5-ab81-59cdb1ceda32>

• EASY

• Max Score: 30 Points

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Longest Distinct Characters

Given a string `str`, find length of the longest substring with all distinct characters.

Input Format

Input consists of one line

The first line is a string `str`.

Output Format

Length of longest substring with all distinct characters

Example 1

Input

geeksforgeeks

Output

7

Explanation

eksforg is the longest substring with all distinct characters.

Example 2

Input

aaa

Output

1

Explanation

a is the longest substring with all distinct characters.

Constraints

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

Topic Tags

- Sliding Window
- Arrays

My code

// in java

```
import java.util.*;  
import java.lang.*;  
import java.io.*;
```

```
public class Main  
{  
    static int longdistinctchar(String str)  
    {
```

```

int n=str.length();
int i=-1,j=-1,ans=0;

HashMap<Character,Integer>hm=new HashMap<>();
while(true)
{
boolean f1=false,f2=false;
while(i<str.length()-1)
{
    f1=true;
    i++;
    char ch=str.charAt(i);
    hm.put(ch,hm.getDefault(ch,0)+1);
    if(hm.get(ch)==2)
        break;
    else
    {
        int len=i-j;
        if(len>ans)
            ans=len;
    }
}
while(i>j)
{
    f2=true;
    j++;
    char ch=str.charAt(j);
    hm.put(ch,hm.getDefault(ch,0)-1);
    if(hm.get(ch)==1)
        break;
}
}

```

```
        if(f1==false &&f2==false)
            break;
        }
    return ans;
}
public static void main (String[] args) throws java.lang.Exception
{
    //your code here
    Scanner s=new Scanner(System.in);
    String str=s.next();
    System.out.print(longdistinctchar(str));
}
}
```