**Maximum number of characters between any two same character**

Submissions: [822](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2761)  Accuracy:

23.49%

   Difficulty: [Easy](https://practice.geeksforgeeks.org/Easy/0/0/)   Marks: 2

Show Topic Tags   

Given a string containing lower and uppercase alphabets, the task is to find the maximum number of characters between any two same character in the string.

**Input:**  
The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case contains a string S.

**Output:**  
For each test case, print the maximum number in new line. If no character repeats, print "-1".

**Constraints:**  
1<=T<=100  
1<=|string length|<=105

**Example:**  
**Input:**  
2  
socks  
FoR  
**Output:**  
3  
-1

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/maximum-number-of-characters-between-any-two-same-character/0#ExpectOP) option \*\*

[Author: arun03](https://auth.geeksforgeeks.org/user/arun03/practice/)

<https://practice.geeksforgeeks.org/problems/maximum-number-of-characters-between-any-two-same-character/0>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp2

{

class Program

{

static int MaximumCh(string s)

{

Dictionary<char, int> dic =

new Dictionary<char, int>();

int max = 0;

for(int i =0; i<s.Length; i++)

{

if (dic.ContainsKey(s[i]))

{

max = Math.Max(max, i - dic[s[i]] - 1);

}

else

{

dic[s[i]] = i;

}

}

return max;

}

static void Main(string[] args)

{

int t = int.Parse(Console.ReadLine());

while (t-- > 0)

{

string s = Console.ReadLine().Trim();

Console.WriteLine(MaximumCh(s));

}

Console.ReadLine();

}

}

}