**Jian Yang and Good Strings**

Jian Yang is very fond of strings. He considers a string good if all the characters in the string are same.

Now you have a very long string of length N and you want to gift Jian a substring of that this string. You want this substring to be good and as large as possible.

Constraints:

1<=N<=100000

1<=T<=100

Input:

First line contains a single integer T, the number of test cases.

Next T lines contain one string in each line.

Output:

For each test case print in newline the length of the largest good substring of given string.

Sample input 1:

3

cccaabbcc

bbaaacccaaa

ffaajjjeeeefaa

Sample Output 1:

3

3

4

Explanation:

In the first case “ccc” will be gifted. In second case “aaa” or ”ccc” can be gifted. In third case “eeee” will be gifted.