

String= M/Adam -> k= 3(allowed distinct characters)

adam = 4

S = 0
k= 0
S = 123

```
import java.util.* ;  
import java.io.*;  
public class Solution {  
    public static int getLengthofLongestSubstring(String s, int k) {  
        if (s== null || s.length() ==0 || k=0) return 0;  
  
        Map<Character, Integer> charCount = new HashMap<>();  
        int left = 0, maxLength=0;  
  
        for(int right =0; right<s.length(); right++){  
  
            char c= s.charAt(right);  
            charCount.put(c, charCount.getOrDefault(c,0)+1);  
            while(charCount.size() > k){  
                char leftChar = s.charAt(left);  
                charCount.put(leftChar, charCount.get(leftChar)-1);  
                if(charCount.get(leftChar)==0){  
                    charCount.remove(leftChar);  
                }  
                left++;  
            }  
            maxLength = math.max(maxLength, right-left+1);  
        }  
        return maxLength;  
    }  
}
```