

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;
    }
}
```