class Solution {

public int lengthOfLongestSubstring(String s) {

Set<Character> h = new HashSet<>();

int maxLength = 0;

int i = 0;

int j = 0;

while(j < s.length()){

if(h.contains(s.charAt(j))){

while(s.charAt(i) != s.charAt(j)){

h.remove(s.charAt(i));

i++;

}

maxLength = Math.max(maxLength, j-i);

i++;

h.add(s.charAt(j));

}

else{

maxLength = Math.max(maxLength, j-i+1);

h.add(s.charAt(j));

}

j++;

}

return maxLength;

}

}