class Solution {

public int lengthOfLongestSubstring(String s) {

int max\_length=0;

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

int start = 0;

int end = 0;

if(s.length()==1)

{

return 1;

}

while(end<s.length()){

if(chars.contains(s.charAt(end))){

max\_length = Math.max(max\_length, end-start);

while(start!=end&&chars.contains(s.charAt(start)))

start++;

}

else

chars.add(s.charAt(end));

end++;

}

if(chars.size() == s.length())

return s.length();

return max\_length;

}

}