

### 3. Longest Substring Without Repeating Characters

Given a string, find the length of the longest substring without repeating characters.

Example 1:

Input: "abcabcbb"

Output: 3

Explanation: The answer is "abc", with the length of 3.

```
class Solution {
    public int lengthOfLongestSubstring(String s) {

        // two pointers
        Set<Character> set = new HashSet<>();
        int anw = 0, i = 0, j = 0;

        while(i < s.length() && j < s.length()) {
            if (!set.contains(s.charAt(j))) {
                set.add(s.charAt(j));
                j++;
                anw = Math.max(anw, j - i);
            } else {
                set.remove(s.charAt(i));
                i++;
            }
        }

        return anw;
    }
}
```