

### 3. Longest Substring Without Repeating Characters

Medium



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

#### Constraints:

- $0 \leq s.length \leq 5 * 10^4$
- `s` consists of English letters, digits, symbols and spaces.

### Example 1:

**Input:** `s = "abcabcbb"`

**Output:** 3

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

### Example 2:

**Input:** `s = "bbbbbb"`

**Output:** 1

**Explanation:** The answer is "b", with the length of 1.

### Example 3:

**Input:** `s = "pwwkew"`

**Output:** 3

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

Notice that the answer must be a substring, "pwke" is a subsequence and not a substring.

```
int lengthOfLongestSubstring(string s) {  
    int n = s.length(), result = 0, i = 0, j = 0;  
    unordered_set<char> st;  
    while(i < n && j < n) {  
        if(st.find(s[j]) == st.end()) {  
            st.insert(s[j]);  
            j++;  
            result = max(result, j - i);  
        } else {  
            st.erase(s[i]);  
            i++;  
        }  
    }  
    return result;  
}
```

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