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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.

Example 1:

```
Input: s = "abcabcbb"
Output: 3
Explanation: The answer is "abc", with the length of 3.
```

Example 2:

```
Input: s = "bbbbb"
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.
```

Example 4:

```
Input: s = ""
Output: 0
```

Constraints:

- `0 <= s.length <= 5 * 10`^{4}
- `s` consists of English letters, digits, symbols and spaces.

Accepted

```
C++                    Autocomplete

1   class Solution {
2   public:
3       int lengthOfLongestSubstring(string s) {
4   
5           int n = s.length();
6           vector<int> util(256,-1);
7           int res = 0;
8           int i=0;
9           for(int j=0; j<n; j++)
10          {
11              i=max(i,util[s[j]]+1);
12              int maxend = j-i+1;
13              res = max(res,maxend);
14              util[s[j]]=j;
15          }
16          return res;
17      }
18  };
```

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