AlgoExpert Quad Layout Python 12px Sublime Monokai 00:00:00

 Prompt
 Scratchpad
 Our Solution(s)
 Video Explanation

Run Code

Solution 1

```
{\tt 1}~{\tt \#}~{\tt Copyright}~{\tt @}~{\tt 2020}~{\tt AlgoExpert},~{\tt LLC.}~{\tt All}~{\tt rights}~{\tt reserved}.
 3 # O(n) time | O(min(n, a)) space
 4 def longestSubstringWithoutDuplication(string):
         lastSeen = {}
         longest = [0, 1]
         startIdx = 0
         for i, char in enumerate(string):
 8
9
             if char in lastSeen:
                startIdx = max(startIdx, lastSeen[char] + 1)
10
           if longest[1] - longest[0] < i + 1 - startIdx:
    longest = [startIdx, i + 1]
lastSeen[char] = i</pre>
11
12
13
         return string[longest[0] : longest[1]]
14
15
```