

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 using System;
4 using System.Collections.Generic;
5
6 public class Program {
7     // O(n) time | O(min(n, a)) space
8     public static string LongestSubstringWithoutDuplication(string str)
9     {
10         Dictionary<char, int> lastSeen = new Dictionary<char, int>();
11         int[] longest = {0, 1};
12         int startIdx = 0;
13         for (int i = 0; i < str.Length; i++) {
14             char c = str[i];
15             if (lastSeen.ContainsKey(c)) {
16                 startIdx = Math.Max(startIdx, lastSeen[c] + 1);
17             }
18             if (longest[1] - longest[0] < i + 1 - startIdx) {
19                 longest = new int[] {startIdx, i + 1};
20             }
21             lastSeen[c] = i;
22         }
23         string result = str.Substring(longest[0], longest[1] - longest[0]);
24         return result;
25     }
26 }
```

Solution 1 Solution 2 Solution 3

```
1 public class Program {
2     public static string LongestSubstringWithoutDuplication(string str)
3     {
4         // Write your code here
5         return null;
6     }
7 }
```

Our Tests

Custom Output

Submit Code

```
1 public class Program {
2     // ...
3     public static string LongestSubstringWithoutDuplication(string str)
4     {
5         // ...
6     }
7 }
```

```
1
2
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4
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```

```
10 # Write down the first 1000 elements of the list
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```

Run or submit code when you're ready.