

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // O(n + m) time | O(n) space
5     func underscorifySubstring(_ string: String, _ substring: String)
6         let locations = getLocations(string, substring)
7         let collapsedLocations = collapse(locations)
8
9         return underscorify(string, collapsedLocations)
10    }
11
12    func getLocations(_ string: String, _ substring: String) -> [[String.Index]] {
13        var locations = [[String.Index]]()
14
15        var start = 0
16        var startIndex = string.index(string.startIndex, offsetBy: start)
17
18        while start < string.count {
19            if let rangeOfSubstring = string.range(of: substring, options: .anchored) {
20                locations.append([rangeOfSubstring.lowerBound, rangeOfSubstring.upperBound])
21
22                let startPos = string.distance(from: string.startIndex, to: rangeOfSubstring.lowerBound)
23                start = startPos + 1
24                startIndex = string.index(string.startIndex, offsetBy: start)
25            } else {
26                break
27            }
28        }
29
30        return locations
31    }
32
33    func collapse(_ locations: [[String.Index]]) -> [[String.Index]] {
```

Solution 1 Solution 2 Solution 3

```
1 class Program {
2     func underscorifySubstring(_ string: String, _ substring: String)
3         // Write your code here.
4         return ""
5     }
6 }
7
```

Our Tests

Custom Output

Submit Code

```
1 class Program {
2     func underscorifySubstring(_ string: String, _ substring: String)
3         // Write your code here.
4         return ""
5     }
6 }
7
```

```
1 class Program {
2     func underscorifySubstring(_ string: String, _ substring: String)
3         // Write your code here.
4         return ""
5     }
6 }
7
```

