

PromptScratchpadOur Solution(s)Video Explanation

Run Code

Solution 1Solution 2Solution 3

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 package main
4
5 // O(bns) time | O(n) space
6 func MultiStringSearch(bigString string, smallStrings []string) []bool {
7     output := make([]bool, len(smallStrings))
8     for i, smallString := range smallStrings {
9         output[i] = isInBigString(bigString, smallString)
10    }
11    return output
12 }
13
14 func isInBigString(bigString, smallString string) bool {
15     for i := range bigString {
16         if i+len(smallString) > len(bigString) {
17             break
18         }
19         if isInBigStringHelper(bigString, smallString, i) {
20             return true
21         }
22     }
23     return false
24 }
25
26 func isInBigStringHelper(bigString, smallString string, startIdx int) bool {
27     leftBigIdx := startIdx
28     rightBigIdx := startIdx + len(smallString) - 1
29     leftSmallIdx := 0
30     rightSmallIdx := len(smallString) - 1
31     for leftBigIdx <= rightBigIdx {
32         if bigString[leftBigIdx] != smallString[leftSmallIdx] ||
33             bigString[rightBigIdx] != smallString[rightSmallIdx] {
34             return false
35         }
36         leftBigIdx += 1
37         rightBigIdx -= 1
38         leftSmallIdx += 1
39         rightSmallIdx -= 1
40     }
41     return true
42 }
43
```