

PromptScratchpadOur Solution(s)Video Explanation

Run Code

Solution 1Solution 2Solution 3

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # O(bns) time | O(n) space
4 def multiStringSearch(bigString, smallStrings):
5     return [isInBigString(bigString, smallString) for smallString in smallStrings]
6
7
8 def isInBigString(bigString, smallString):
9     for i in range(len(bigString)):
10         if i + len(smallString) > len(bigString):
11             break
12         if isInBigStringHelper(bigString, smallString, i):
13             return True
14     return False
15
16
17 def isInBigStringHelper(bigString, smallString, startIdx):
18     leftBigIdx = startIdx
19     rightBigIdx = startIdx + len(smallString) - 1
20     leftSmallIdx = 0
21     rightSmallIdx = len(smallString) - 1
22     while leftBigIdx <= rightBigIdx:
23         if bigString[leftBigIdx] != smallString[leftSmallIdx] or bigString[rightBigIdx] != smallString[rightSmallIdx]:
24             return False
25         leftBigIdx += 1
26         rightBigIdx -= 1
27         leftSmallIdx += 1
28         rightSmallIdx -= 1
29     return True
30
```