AlgoExpert

Solution 1 Solution 2

23

Quad Layout

Python

14рх

Sublime

Monokai

00:00:

Run Code

Our Solution(s)

```
Run Code
```

Your Solutions

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   # O(n^3 + m) time | O(n + m) space - where n is the number of digits
   def numbersInPi(pi, numbers):
       numbersTable = {number: True for number in numbers}
       minSpaces = getMinSpaces(pi, numbersTable, {}, 0)
       return -1 if minSpaces == float("inf") else minSpaces
10 def getMinSpaces(pi, numbersTable, cache, idx):
11
       if idx == len(pi):
12
           return -1
13
       if idx in cache:
14
         return cache[idx]
15
       minSpaces = float("inf")
16
       for i in range(idx, len(pi)):
17
           prefix = pi[idx : i + 1]
18
           if prefix in numbersTable:
19
               minSpacesInSuffix = getMinSpaces(pi, numbersTable, cache,
20
               minSpaces = min(minSpaces, minSpacesInSuffix + 1)
21
       cache[idx] = minSpaces
22
       return cache[idx]
```

```
Solution 1 Solution 2 Solution 3
1 def numbersInPi(pi, numbers):
      # Write your code here.
      pass
```

Run or submit code when you're ready.