AlgoExpert Quad Layout JavaScript 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

```
Solution 1 Solution 2
```

```
1\, // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3\ //\ O(n^3+m) time |\ O(n+m) space - where n is the number of digits in Pi and m is the number of favorite numbers
 4 function numbersInPi(pi, numbers) {
     const numbersTable = {};
     for (const number of numbers) {
       numbersTable[number] = true;
 8
     const minSpaces = getMinSpaces(pi, numbersTable, {}, 0);
9
10
     return minSpaces === Infinity ? -1 : minSpaces;
11 }
12
13 function getMinSpaces(pi, numbersTable, cache, idx) {
14
     if (idx === pi.length) return -1;
15
     if (idx in cache) return cache[idx];
     let minSpaces = Infinity;
16
17
     for (let i = idx; i < pi.length; i++) {
18
       const prefix = pi.slice(idx, i + 1);
       if (prefix in numbersTable) {
19
20
         const minSpacesInSuffix = getMinSpaces(pi, numbersTable, cache, i + 1);
21
         minSpaces = Math.min(minSpaces, minSpacesInSuffix + 1);
22
23
24
     cache[idx] = minSpaces;
25
     return cache[idx];
26 }
27
28 exports.numbersInPi = numbersInPi;
```