Our Solution(s)

Run Code

```
Your Solutions
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Solution 1 Solution 2 Solution 3

```
Run Code
```

```
Solution 1 Solution 2
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
3 #include <set>
4 #include <unordered_map>
 5 #include <algorithm>
 6 #include <climits>
7 #include <vector>
8 using namespace std;
10 int getMinSpaces(string pi, set<string> numbersTable,
11
                    unordered_map<int, int> *cache, int idx);
12
13 // O(n^3 + m) time | O(n + m) space - where n is the number of digits
14 // m is the number of favorite numbers
15 int numbersInPi(string pi, vector<string> numbers) {
16
     set<string> numbersTable;
17
     for (string number : numbers) {
18
      numbersTable.insert(number);
19
20
     unordered_map<int, int> cache;
     int minSpaces = getMinSpaces(pi, numbersTable, &cache, 0);
21
22
     return minSpaces == INT_MAX ? -1 : minSpaces;
23 }
24
25 int getMinSpaces(string pi, set<string> numbersTable,
26
                    unordered_map<int, int> *cache, int idx) {
27
     if (idx == pi.length())
28
      return -1;
29
     if (cache->find(idx) != cache->end())
30
      return cache->at(idx);
31
     int minSpaces = INT_MAX;
     for (int i = idx; i < pi.length(); i++) {</pre>
33
       string prefix = pi.substr(idx, i + 1 - idx);
```

```
1 #include <vector>
2 using namespace std;
3
4 int numbersInPi(string pi, vector<string> numbers) {
5   // Write your code here.
6   return -1;
7 }
8
```

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.

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