Solution 1 Solution 2

Our Solution(s)

Run Code

```
Your Solutions Run Code
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.*;
   class Program {
     // O(n^3 + m) time | O(n + m) space - where n is the number of digi
     // favorite numbers
     public static int numbersInPi(String pi, String[] numbers) {
       Set<String> numbersTable = new HashSet<String>();
        for (String number : numbers) {
10
11
         numbersTable.add(number);
12
       Map<Integer, Integer> cache = new HashMap<Integer, Integer>();
14
       int minSpaces = getMinSpaces(pi, numbersTable, cache, 0);
15
        return minSpaces == Integer.MAX_VALUE ? -1 : minSpaces;
16
17
18
     public static int getMinSpaces(
19
        String pi, Set<String> numbersTable, Map<Integer, Integer> cache
20
        if (idx == pi.length()) return -1;
21
       if (cache.containsKey(idx)) return cache.get(idx);
        int minSpaces = Integer.MAX_VALUE;
        for (int i = idx; i < pi.length(); i++) {</pre>
24
          String prefix = pi.substring(idx, i + 1);
          if (numbersTable.contains(prefix)) {
26
           int minSpacesInSuffix = getMinSpaces(pi, numbersTable, cache,
27
            // Handle int overflow.
28
           if (minSpacesInSuffix == Integer.MAX_VALUE) {
29
             minSpaces = Math.min(minSpaces, minSpacesInSuffix);
30
           } else {
31
             minSpaces = Math.min(minSpaces, minSpacesInSuffix + 1);
```

```
Solution 1  Solution 2  Solution 3

1  class Program {
2   public static int numbersInPi(String pi, String[] numbers) {
3      // Write your code here.
4      return -1;
5   }
6 }
```



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