Our Solution(s)

Run Code

Solution 1   **Solution 2**

```csharp
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using System;
using System.Collections.Generic;

public class Program {
  // O(n^3 + m) time | O(n + m) space - where n is the number of digi
  public static int NumbersInPi(string pi, string[] numbers) {
    HashSet<string> numbersTable = new HashSet<string>();
    foreach (string number in numbers) {
      numbersTable.Add(number);
    }
    Dictionary<int, int> cache = new Dictionary<int, int>();
    int minSpaces = getMinSpaces(pi, numbersTable, cache, 0);
    return minSpaces == Int32.MaxValue ? -1 : minSpaces;
  }

  public static int getMinSpaces(
    string pi,
    HashSet<string> numbersTable,
    Dictionary<int, int> cache,
    int idx
  ) {
    if (idx == pi.Length) return -1;
    if (cache.ContainsKey(idx)) return cache[idx];
    int minSpaces = Int32.MaxValue;
    for (int i = idx; i < pi.Length; i++) {
      string prefix = pi.Substring(idx, i + 1 - idx);
      if (numbersTable.Contains(prefix)) {
        int minSpacesInSuffix =
          getMinSpaces(pi, numbersTable, cache, i + 1);
        // Handle int overflow.
        if (minSpacesInSuffix == Int32.MaxValue) {
```

Your Solutions

Run Code

Solution 1   **Solution 2**   **Solution 3**

```csharp
public class Program {
  public static int NumbersInPi(string pi, string[] numbers) {
    // Write your code here.
    return -1;
  }
}
```

Our Tests

Custom Output

Submit Code

Run or submit code when you're ready.