Our Solution(s)   Run Code

Solution 1

```csharp
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using System.Collections.Generic;

public class Program {

  public class stringChain {
    public string nextstring;
    public int maxChainLength;

    public stringChain(string nextstring, int maxChainLength) {
      this.nextstring = nextstring;
      this.maxChainLength = maxChainLength;
    }
  }

  // O(n * m^2 + nlog(n)) time | O(nm) space - where n is the number o
  // and m is the length of the longest string
  public static List<string> longeststringChain(List<string> strings)
    // For every string, imagine the longest string chain that starts
    // Set up every string to point to the next string in its respecti
    // string chain. Also keep track of the lengths of these longest s
    // chains.
    Dictionary<string,
      stringChain> stringChains = new Dictionary<string, stringChain>(
    foreach (string str in strings) {
      stringChains[str] = new stringChain("", 1);
    }

    // Sort the strings based on their length so that whenever we visi
    // string (as we iterate through them from left to right), we can
    // already have computed the longest string chains of any smaller
    List<string> sortedstrings = new List<string>(strings);
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```csharp
using System.Collections.Generic;

public class Program {
  public static List<string> longeststringChain(List<string> strings)
    // Write your code here.
    return null;
  }
}
```

Our Tests

Custom Output   Submit Code

Run or submit code when you're ready.