AlgoExpert

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**Quad Layout** 

C#

14рх

**Your Solutions** 

Sublime

Monokai

00:00:

Run Code

Our Solution(s) Run Code

```
Solution 1
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   using System.Collections.Generic;
   public class Program {
     // O(n) time | O(d) space - where n is the number of people
     \ensuremath{//} in the org and d is the depth (height) of the org chart
     public static OrgChart GetLowestCommonManager(OrgChart topManager,
9
       OrgChart reportTwo) {
10
       return getOrgInfo(topManager, reportOne, reportTwo).lowestCommonM
11
12
     public static OrgInfo getOrgInfo(OrgChart manager, OrgChart reportOn
14
       int numImportantReports = 0;
15
       foreach (OrgChart directReport in manager.directReports) {
         OrgInfo orgInfo = getOrgInfo(directReport, reportOne, reportTwo)
16
17
         if (orgInfo.lowestCommonManager != null) return orgInfo;
18
         numImportantReports += orgInfo.numImportantReports;
19
20
       if (manager == reportOne || manager == reportTwo) numImportantRepo
       OrgChart lowestCommonManager = numImportantReports == 2 ? manager
21
       OrgInfo newOrgInfo = new OrgInfo(lowestCommonManager, numImportant
       return newOrgInfo;
24
26
     public class OrgChart {
27
       public char name;
```

public List<OrgChart> directReports;

this.directReports = new List<OrgChart>();

public OrgChart(char name) {
 this.name = name;

```
Solution 1 Solution 2 Solution 3
1 using System.Collections.Generic;
```

```
public class Program {
      public static OrgChart GetLowestCommonManager(OrgChart topManager,
        OrgChart reportTwo) {
        // Write your code here.
        return null;
 9
      public class OrgChart {
10
       public char name;
11
        public List<OrgChart> directReports;
13
        public OrgChart(char name) {
14
          this.name = name:
          this.directReports = new List<OrgChart>();
17
18
        \ensuremath{//} This method is for testing only.
19
        public void addDirectReports(OrgChart[] directReports) {
20
          foreach (OrgChart directReport in directReports) {
21
            this.directReports.Add(directReport);
23
25 }
26
```

Run or submit code when you're ready.

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