Solution 1 Solution 2

Our Solution(s)

Run Code

de Your Solutions

Run Code

```
Solution 1
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.*;
   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, OrgChart reportOne, OrgChart reportTwo) {
10
       return getOrgInfo(topManager, reportOne, reportTwo).lowestCommonM
11
12
     public static OrgInfo getOrgInfo(OrgChart manager, OrgChart reportOn
14
       int numImportantReports = 0;
15
       for (OrgChart directReport : 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
21
       OrgChart lowestCommonManager = numImportantReports == 2 ? manager
       OrgInfo newOrgInfo = new OrgInfo(lowestCommonManager, numImportant
       return newOrgInfo;
24
26
     static class OrgChart {
27
       public char name;
28
       public List<OrgChart> directReports;
29
```

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

```
1 import java.util.*;
   class Program {
     public static OrgChart getLowestCommonManager(
         OrgChart topManager, OrgChart reportOne, OrgChart reportTwo) {
        // Write your code here.
       return null;
      static class OrgChart {
10
       public char name;
       public List<OrgChart> directReports;
12
13
       OrgChart(char name) {
14
         this.name = name;
16
         this.directReports = new ArrayList<OrgChart>();
17
18
19
       // This method is for testing only.
20
        public void addDirectReports(OrgChart[] directReports) {
          for (OrgChart directReport : directReports) {
21
           this.directReports.add(directReport);
25
26 }
27
```

Solution 3

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

Run or submit code when you're ready.

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