

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # O(n) time | O(d) space - where n is the number of people
4 # in the org and d is the depth (height) of the org chart
5 def getLowestCommonManager(topManager, reportOne, reportTwo):
6     return getOrgInfo(topManager, reportOne, reportTwo).lowestCommonManager
7
8
9 def getOrgInfo(manager, reportOne, reportTwo):
10     numImportantReports = 0
11     for directReport in manager.directReports:
12         orgInfo = getOrgInfo(directReport, reportOne, reportTwo)
13         if orgInfo.lowestCommonManager is not None:
14             return orgInfo
15         numImportantReports += orgInfo.numImportantReports
16     if manager == reportOne or manager == reportTwo:
17         numImportantReports += 1
18     lowestCommonManager = manager if numImportantReports == 2 else None
19     return OrgInfo(lowestCommonManager, numImportantReports)
20
21
22 class OrgInfo:
23     def __init__(self, lowestCommonManager, numImportantReports):
24         self.lowestCommonManager = lowestCommonManager
25         self.numImportantReports = numImportantReports
26
```

Solution 1

Solution 2

Solution 3

```
1 def getLowestCommonManager(topManager, reportOne, reportTwo):
2     # Write your code here.
3     pass
4
```

Our Tests

Custom Output

Submit Code



```

14     left = leftReport + 1
15
16     addNewReport(left, leftReport)
17     for leftReport in leftReport:
18         left = leftReport.append(leftReport)
19
20     left = leftReport
21     leftReport = leftReport
22     for leftReport in leftReport:
23         leftReport.append(leftReport)
24     return leftReport
25
26     return leftReport
27
28     return leftReport
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30     return leftReport
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32     return leftReport
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34     return leftReport
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36     return leftReport
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82     return leftReport
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84     return leftReport
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86     return leftReport
87
88     return leftReport
89
90     return leftReport
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92     return leftReport
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94     return leftReport
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96     return leftReport
97
98     return leftReport
99
100    return leftReport

```

Run or submit code when you're ready.