Our Solution(s)

Run Code

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Your Solutions

Run Code

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Solution 1 Solution 2
 1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   # O(j + d) time | O(j + d) space
   def topologicalSort(jobs, deps):
       jobGraph = createJobGraph(jobs, deps)
        return getOrderedJobs(jobGraph)
9
   def createJobGraph(jobs, deps):
       graph = JobGraph(jobs)
10
11
        for prereq, job in deps:
12
           graph.addPrereq(job, prereq)
13
        return graph
14
15
16 def getOrderedJobs(graph):
       orderedJobs = []
17
18
       nodes = graph.nodes
19
       while len(nodes):
20
           node = nodes.pop()
21
           containsCycle = depthFirstTraverse(node, orderedJobs)
22
           if containsCycle:
23
               return []
24
       return orderedJobs
25
26
27
   def depthFirstTraverse(node, orderedJobs):
28
       if node.visited:
29
           return False
30
       if node.visiting:
31
           return True
32
       node.visiting = True
       for prereqNode in node.prereqs:
```

```
def topologicalSort(jobs, deps):
    # Write your code here.
    pass
4
```

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Run or submit code when you're ready.