Solution 1 Solution 2

33

Run Code

Our Solution(s) Run

```
Run Code
```

Your Solutions

14рх

Solution 1 Solution 2 Solution 3

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3 // O(j + d) time | O(j + d) space
4 function topologicalSort(jobs, deps) {
    const jobGraph = createJobGraph(jobs, deps);
     return getOrderedJobs(jobGraph);
7 }
9 function createJobGraph(jobs, deps) {
    const graph = new JobGraph(jobs);
10
11
     for (const [prereq, job] of deps) {
12
      graph.addPrereq(job, prereq);
13
14
     return graph;
15 }
16
17 function getOrderedJobs(graph) {
18
     const orderedJobs = [];
19
     const {nodes} = graph;
20
     while (nodes.length) {
21
       const node = nodes.pop();
22
       const containsCycle = depthFirstTraverse(node, orderedJobs);
       if (containsCycle) return [];
24
25
     return orderedJobs;
26 }
27
28 function depthFirstTraverse(node, orderedJobs) {
29
     if (node.visited) return false;
30
     if (node.visiting) return true;
31
     node.visiting = true;
     for (const prereqNode of node.prereqs) {
```

const containsCycle = depthFirstTraverse(prereqNode, orderedJobs);

```
1 function topologicalSort(jobs, deps) {
2    // Write your code here.
3  }
4
5  // Do not edit the line below.
6 exports.topologicalSort = topologicalSort;
7
```

 Our Tests
 Custom Output
 Submit Code



Run or submit code when you're ready.

and the course backgraphers are