Solution 1 Solution 2

8 public:

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26 }; 27

15 }; 16

18 public: 19

void addNode(int job);

JobNode \*getNode(int job);

32 // O(j + d) time | O(j + d) space

29 vector<int> getOrderedJobs(JobGraph \*graph);

28 JobGraph \*createJobGraph(vector<int> jobs, vector<vector<int>> deps);

33 vector<int> topologicalSort(vector<int> jobs, vector<vector<int>> deps

30 bool depthFirstTraverse(JobNode \*node, vector<int> \*orderedJobs);

Solution 3

Run Code

Our Solution(s)

```
Run Code
```

```
Your Solutions
```

Solution 1 Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
                                                                            1 #include <vector>
                                                                            2 using namespace std;
3 #include <vector>
                                                                            4 vector<int> topologicalSort(vector<int> jobs, vector<vector<int>> deps
4 #include <unordered_map>
5 using namespace std;
                                                                               // Write your code here.
                                                                            7 }
7 class JobNode {
                                                                            8
     int job;
     vector<JobNode *> prereqs;
     bool visited;
     bool visiting;
     JobNode(int job);
17 class JobGraph {
     vector<JobNode *> nodes;
     unordered_map<int, JobNode *> graph;
     JobGraph(vector<int> jobs);
     void addPrereq(int job, int prereq);
```

Run or submit code when you're ready.

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