

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 #include <vector>
4 #include <unordered_map>
5 #include <algorithm>
6 using namespace std;
7
8 class JobNode {
9 public:
10     int job;
11     vector<JobNode *> deps;
12     int numOfPrereqs;
13
14     JobNode(int job);
15 };
16
17 class JobGraph {
18 public:
19     vector<JobNode *> nodes;
20     unordered_map<int, JobNode *> graph;
21
22     JobGraph(vector<int> jobs);
23     void addDep(int job, int dep);
24     void addNode(int job);
25     JobNode *getNode(int job);
26 };
27
28 JobGraph *createJobGraph(vector<int> jobs, vector<vector<int>> deps);
29 vector<int> getOrderedJobs(JobGraph *graph);
30 void removeDeps(JobNode *node, vector<JobNode *> *nodesWithNoPrereqs);
31
32 // O(j + d) time | O(j + d) space
33 vector<int> topologicalSort(vector<int> jobs, vector<vector<int>> deps;
```

Solution 1

Solution 2

Solution 3

```
1 #include <vector>
2 using namespace std;
3
4 vector<int> topologicalSort(vector<int> jobs, vector<vector<int>> deps
5     // Write your code here.
6     return {};
7 }
8
```

Our Tests

Custom Output

Submit Code

```
1 #include <vector>
2
3 #include <unordered_map>
4 #include <algorithm>
5 #include <string>
6
7 using namespace std;
8
9 class JobNode {
10 public:
11     int job;
12     vector<JobNode *> deps;
13     int numOfPrereqs;
14
15     JobNode(int job);
16 };
17
18 class JobGraph {
19 public:
20     vector<JobNode *> nodes;
21     unordered_map<int, JobNode *> graph;
22
23     JobGraph(vector<int> jobs);
24     void addDep(int job, int dep);
25     void addNode(int job);
26     JobNode *getNode(int job);
27 };
28
29 JobGraph *createJobGraph(vector<int> jobs, vector<vector<int>> deps);
30 vector<int> getOrderedJobs(JobGraph *graph);
31 void removeDeps(JobNode *node, vector<JobNode *> *nodesWithNoPrereqs);
32
33 // O(j + d) time | O(j + d) space
34 vector<int> topologicalSort(vector<int> jobs, vector<vector<int>> deps);
```

```
1 #include <vector>
2 using namespace std;
3
4 vector<int> topologicalSort(vector<int> jobs, vector<vector<int>> deps
5     // Write your code here.
6     return {};
7 }
8
```

Run or submit code when you're ready.