AlgoExpert   Quad Layout   Java   14px   Sublime   Monokai   00:00:

Our Solution(s)   Run Code

Solution 1   Solution 2

```java
// Copyright © 2020 AlgoExpert, LLC. All rights reserved.

import java.util.*;

class Program {
  // O(j + d) time | O(j + d) space
  public static List<Integer> topologicalSort(List<Integer> jobs, List
    JobGraph jobGraph = createJobGraph(jobs, deps);
    return getOrderedJobs(jobGraph);
  }

  public static JobGraph createJobGraph(List<Integer> jobs, List<Integ
    JobGraph graph = new JobGraph(jobs);
    for (Integer[] dep : deps) {
      graph.addPrereq(dep[1], dep[0]);
    }
    return graph;
  }

  public static List<Integer> getOrderedJobs(JobGraph graph) {
    List<Integer> orderedJobs = new ArrayList<Integer>();
    List<JobNode> nodes = new ArrayList<JobNode>(graph.nodes);
    while (nodes.size() > 0) {
      JobNode node = nodes.get(nodes.size() - 1);
      nodes.remove(nodes.size() - 1);
      boolean containsCycle = depthFirstTraverse(node, orderedJobs);
      if (containsCycle) return new ArrayList<Integer>();
    }
    return orderedJobs;
  }

  public static boolean depthFirstTraverse(JobNode node, List<Integer>
    if (node.visited) return false;
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```java
import java.util.*;

class Program {
  public static List<Integer> topologicalSort(List<Integer> jobs, List
    // Write your code here.
    return null;
  }
}
```

Our Tests

[illegible]

Custom Output   Submit Code

[illegible]

Run or submit code when you're ready.