Our Solution(s)

Run Code

**Your Solutions** 

Solution 3

Run Code

```
Solution 1
            Solution 2
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   using System.Collections.Generic;
   public class Program {
     // O(j + d) time | O(j + d) space
     public static List<int> TopologicalSort(List<int> jobs, List<int[]>
        JobGraph jobGraph = createJobGraph(jobs, deps);
9
        return getOrderedJobs(jobGraph);
10
11
12
     public static JobGraph createJobGraph(List<int> jobs, List<int[]> de
13
        JobGraph graph = new JobGraph(jobs);
14
        foreach (int[] dep in deps) {
15
         graph.addDep(dep[0], dep[1]);
16
17
       return graph;
18
19
20
     public static List<int> getOrderedJobs(JobGraph graph) {
21
       List<int> orderedJobs = new List<int>();
22
        List<JobNode> nodesWithNoPrereqs = new List<JobNode>();
        foreach (JobNode node in graph.nodes) {
24
          if (node.numOfPrereqs == 0) {
            nodesWithNoPrereqs.Add(node);
26
27
       while (nodesWithNoPrereqs.Count > 0) {
28
29
          JobNode node = nodesWithNoPrereqs[nodesWithNoPrereqs.Count - 1];
30
          \verb|nodesWithNoPrereqs.RemoveAt(nodesWithNoPrereqs.Count - 1);|\\
31
          orderedJobs.Add(node.job);
          removeDeps(node, nodesWithNoPrereqs);
33
```

```
Solution 1
            Solution 2
1 using System.Collections.Generic;
3 public class Program {
    public static List<int> TopologicalSort(List<int> jobs, List<int[]>
      // Write your code here.
      return null;
```

Run or submit code when you're ready.