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

Our Solution(s) Run Code

Solution 1 Solution 2

```javascript
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// O(j + d) time | O(j + d) space
function topologicalSort(jobs, deps) {
  const jobGraph = createJobGraph(jobs, deps);
  return getOrderedJobs(jobGraph);
}

function createJobGraph(jobs, deps) {
  const graph = new JobGraph(jobs);
  for (const [job, dep] of deps) {
    graph.addDep(job, dep);
  }
  return graph;
}

function getOrderedJobs(graph) {
  const orderedJobs = [];
  const nodesWithNoPrereqs = graph.nodes.filter(node => !node.numOfPre
  while (nodesWithNoPrereqs.length) {
    const node = nodesWithNoPrereqs.pop();
    orderedJobs.push(node.job);
    removeDeps(node, nodesWithNoPrereqs);
  }
  const graphHasEdges = graph.nodes.some(node => node.numOfPrereqs);
  return graphHasEdges ? [] : orderedJobs;
}

function removeDeps(node, nodesWithNoPrereqs) {
  while (node.deps.length) {
    const dep = node.deps.pop();
    dep.numOfPrereqs--;
    if (!dep.numOfPrereqs) nodesWithNoPrereqs.push(dep);
```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```javascript
function topologicalSort(jobs, deps) {
  // Write your code here.
}

// Do not edit the line below.
exports.topologicalSort = topologicalSort;
```

Our Tests

[illegible]

Custom Output Submit Code

```
[illegible]
```

Run or submit code when you're ready.