



Description

Solution

Discuss (999+)

Submissions

C#

210. Course Schedule II

Medium

5856

219

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There are a total of `numCourses` courses you have to take, labeled from `0` to `numCourses - 1`. You are given an array `prerequisites` where `prerequisites[i] = [ai, bi]` indicates that you **must** take course `bi` first if you want to take course `ai`.

- For example, the pair `[0, 1]`, indicates that to take course `0` you have to first take course `1`.

Return the ordering of courses you should take to finish all courses. If there are many valid answers, return **any** of them. If it is impossible to finish all courses, return **an empty array**.

Example 1:

Input: `numCourses = 2, prerequisites = [[1,0]]`

Output: `[0,1]`

Explanation: There are a total of 2 courses to take. To take course 1 you should have finished course 0. So the correct course order is `[0,1]`.

Example 2:

Input: `numCourses = 4, prerequisites = [[1,0],[2,0],[3,1],[3,2]]`

Output: `[0,2,1,3]`

Explanation: There are a total of 4 courses to take. To take course 3 you should have finished both courses 1 and 2. Both courses 1 and 2 should be taken after you finished course 0.

So one correct course order is `[0,1,2,3]`. Another correct ordering is `[0,2,1,3]`.

Example 3:

Input: `numCourses = 1, prerequisites = []`

Output: `[0]`

i

{}

↶

↷

```
7 // Create t
adjacency list represen
the graph
8 for (var j
prerequisites.Length; j
9 {
10 int des
prerequisites[j][0];
11 int src
prerequisites[j][1];
12
13 if(adjList.ContainsKey
{
14 adjList[src].Add(dest)
15 }
16 else
17 {
18 List
lst = new List<int>();
19
20 lst.Add(dest);
21
22 adjList.Add(src, lst);
23 }
24 // Reco
degree of each vertex
indegree
+= 1;
25 }
26
27 // Add all
with 0 in-degree to the
28 Queue<int>
Queue<int>();
29 for (int i
```

Testcase

Run Code Result

Accepted

Runtime: 277 ms

Your input

```
2
[[1,0]]
```

Output

```
[0,1]
```

Expected

```
[0,1]
```

Console

Use Example Testcase

Problems

Pick One

< Prev

8/30

Next >

Run Code ^

Subm