

LeetCode

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LeetCode Challenge + GIVEAWAY!

Description

Solution

Discuss (999+)

Submissions

i

Java

Autocomplete

i

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210. Course Schedule II

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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]`

Constraints:

- `1 <= numCourses <= 2000`
- `0 <= prerequisites.length <= numCourses * (numCourses - 1)`
- `prerequisites[i].length == 2`
- `0 <= ai, bi < numCourses`
- `ai != bi`
- All the pairs `[ai, bi]` are **distinct**.

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Seen this question in a real interview before?

Yes

No

Companies

i

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```
class Solution {
    public int[] findOrder(int numCourses, int[][] prerequisites) {
    }
}
```

Problems

Pick One

< Prev

5/5

Next >

Console

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Run Code ^

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