

## 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

- 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 f

### 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.

### 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 course 1 and course 2. 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**.

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

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