#### Course Schedule II

Try to solve the Course Schedule II problem.

We'll cover the following
Statement
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Figure it out!
Try it yourself

#### **Statement**

Let's assume that there are a total of n courses labeled from 0 to n-1. Some courses may have prerequisites. A list of prerequisites is specified such that if  $Prerequisites_i = a, b$ , you must take course b before course a.

Given the total number of courses n and a list of the prerequisite pairs, return the course order a student should take to finish all of the courses. If there are multiple valid orderings of courses, then the return any one of them.

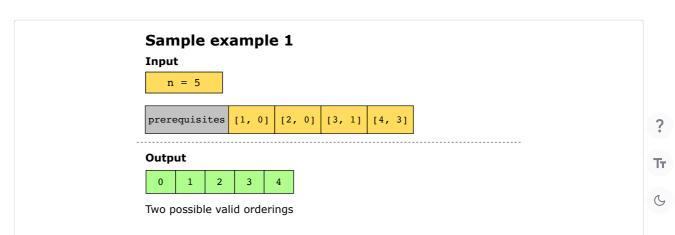
**Note:** There can be a course in the 0 to n-1 range with no prerequisites.

#### **Constraints:**

Let n be the number of courses.

- $1 \le n \le 2000$
- $0 \le \text{prerequisites.length} \le n * (n-1)$
- prerequisites[i].length ==2
- $0 \le a, b < n$
- $a \neq b$
- All the pairs [a, b] are distinct.

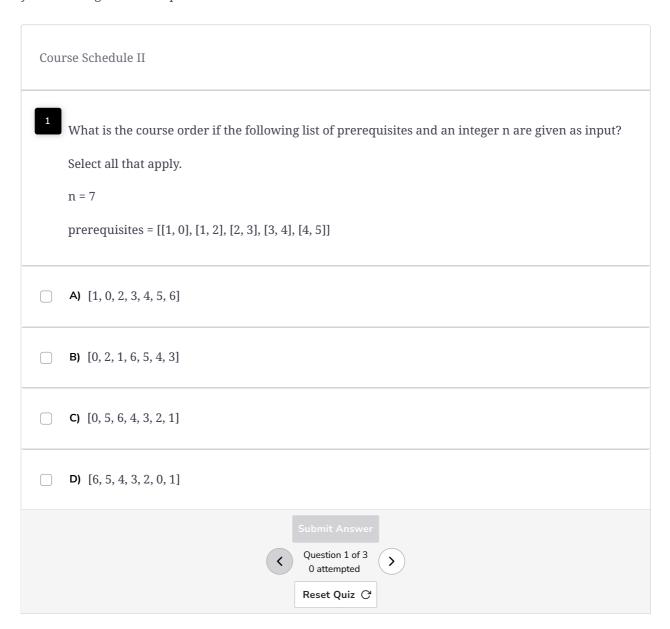
### **Examples**





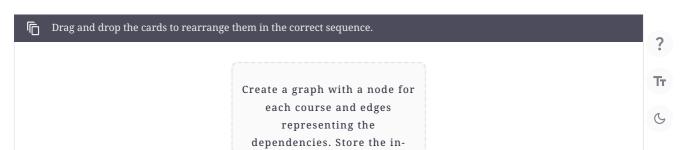
### Understand the problem

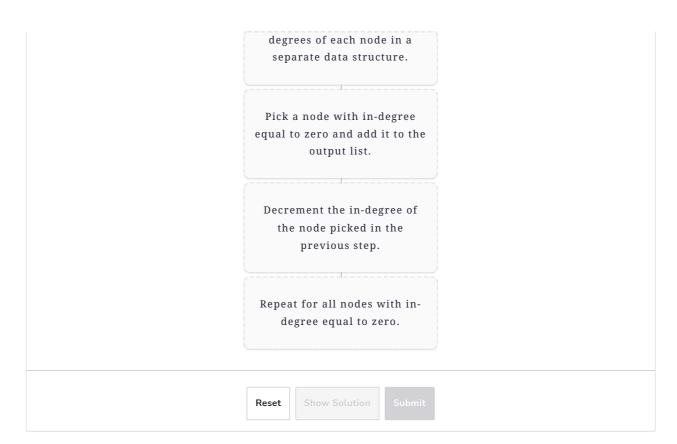
Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:



## Figure it out!

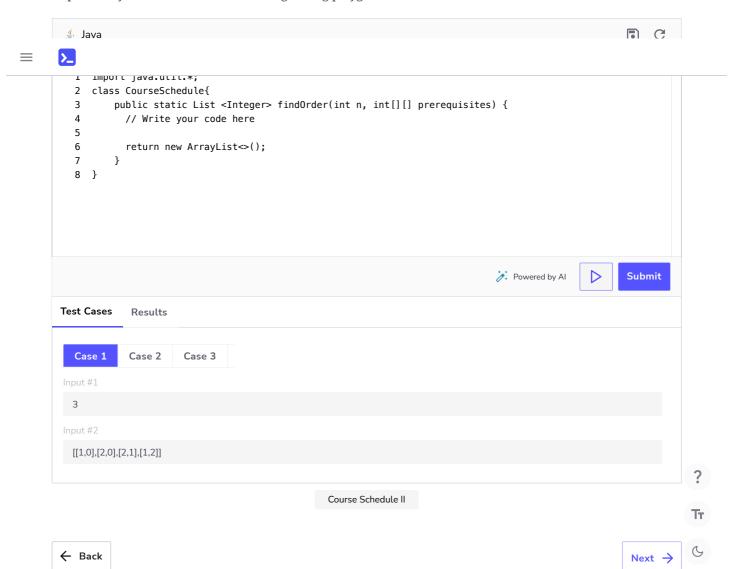
We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.





# Try it yourself

Implement your solution in the following coding playground:



Solution: Verifying an ... Solution: Course Sche...

✓ Mark as Completed

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