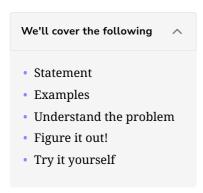
Course Schedule

Try to solve the Course Schedule problem.



Statement

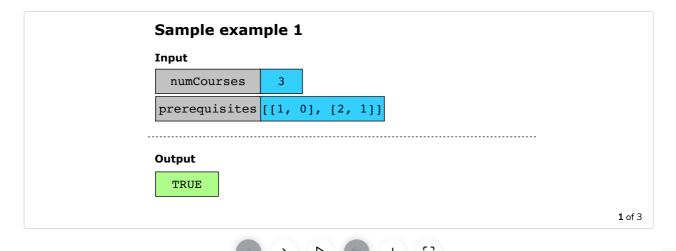
There are a total of numCourses courses you have to take. The courses are labeled from 0 to numCourses -1. You are also given a prerequisites array, where prerequisites[i] = [a[i], b[i]] indicates that you must take course b[i] first if you want to take the course a[i]. For example, the pair [1,0] indicates that to take course 1, you have to first take course 0.

Return TRUE if all of the courses can be finished. Otherwise, return FALSE.

Constraints:

- $1 \leq \mathsf{numCourses} \leq 2000$
- $0 \le prerequisites.length \le 5000$
- prerequisites[i].length = 2
- $0 \le a[i], b[i] < num_courses$
- All the pairs prerequisites[i] are unique.

Examples

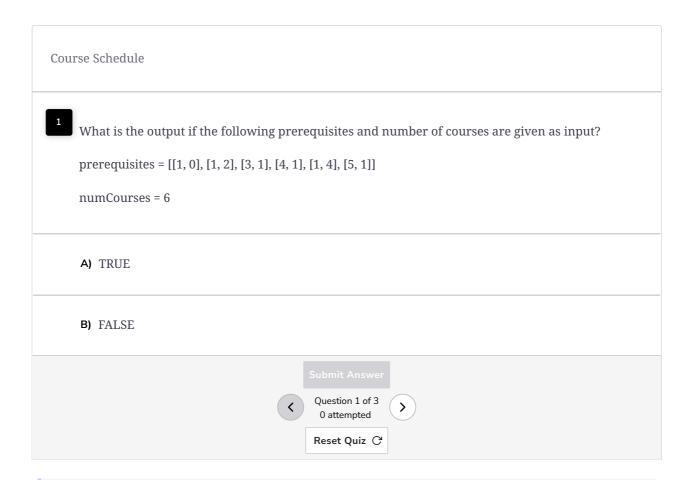


Understand the problem

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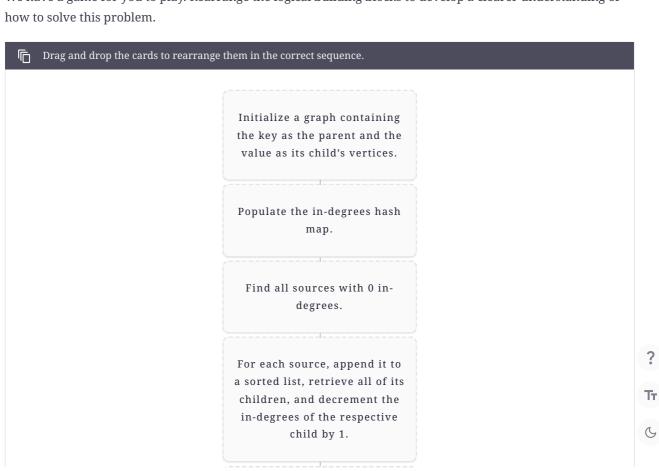
Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:



Note: The **in-degree** is the number of edges coming into a vertex in a directed graph.

Figure it out!

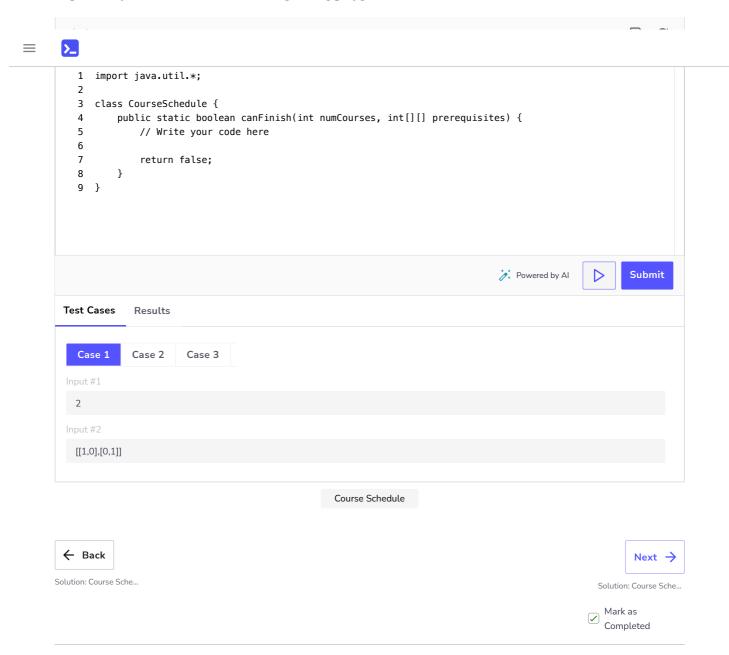
We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of





Try it yourself

Implement your solution in the following coding playground.



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