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Compilation Order

Try to solve the Compilation Order problem.



Statement

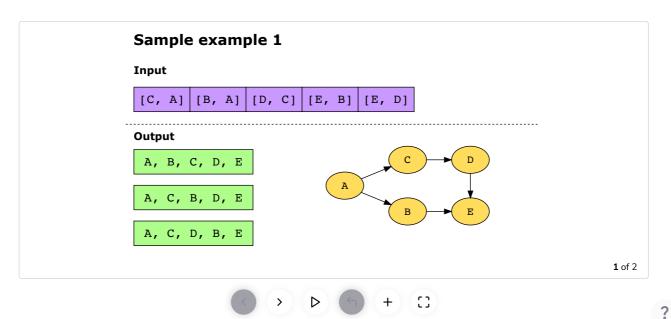
There are a total of n classes labeled with the English alphabet (A, B, C, A) and so on). Some classes are dependent on other classes for compilation. For example, if class B extends class A, then B has a dependency on A. Therefore, A must be compiled before B.

Given a list of the dependency pairs, find the order in which the classes should be compiled.

Constraints:

- Class name should be a character.
- $0 \le \text{dependencies.length} \le 5000$
- dependencies[i].length =2
- All dependency pairs should be unique.

Examples



In the above examples, the arrows represent the relationship between these classes. For example, the arrow $A \to C$ shows that C extends A, and therefore, C is dependent on A.

Understand the problem

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

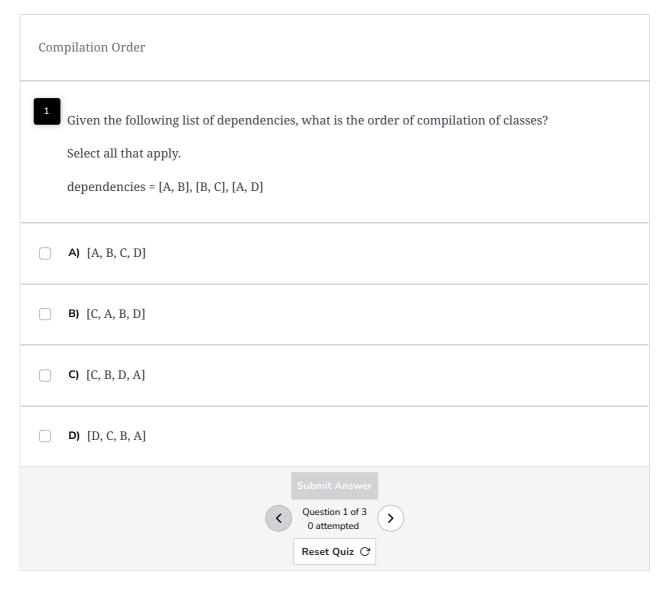
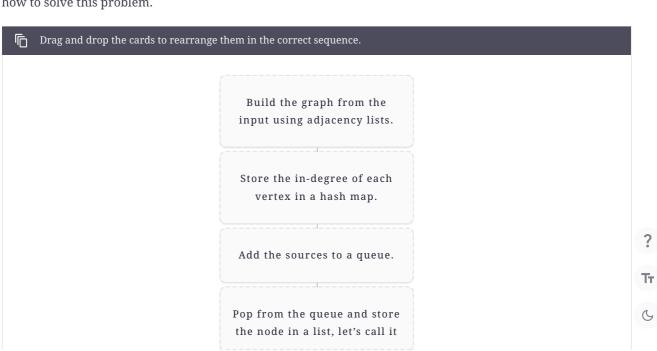
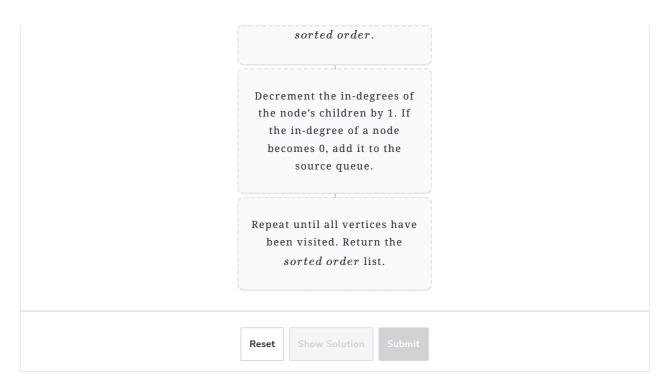


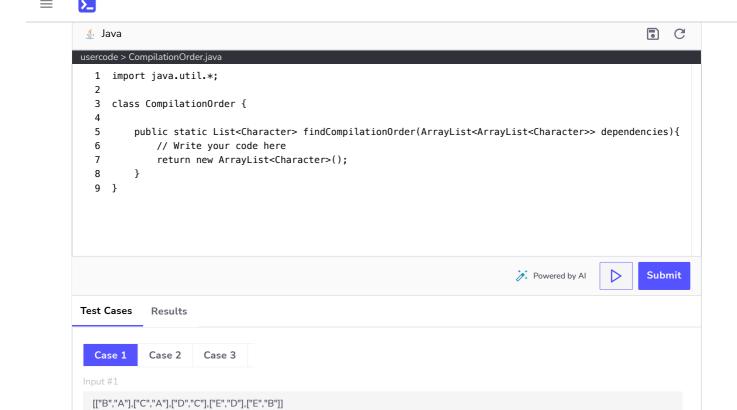
Figure it out!

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

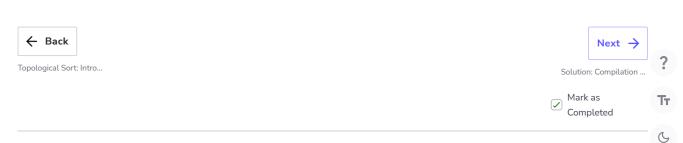




Try it yourself



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