

5N Find a Topological Ordering of a DAG

Topological Ordering Problem

Find a topological ordering of a directed acyclic graph.

Input: A directed acyclic graph.

Output: A topological ordering of this graph.



Formatting

Input: An adjacency list representing a directed acyclic graph with nodes represented by integers.

Output: A space-separated list of integers representing a topological ordering of the DAG.

Constraints

- The number of nodes in the graph will be between 1 and 10^2 .
- The number of edges in the graph will be between 1 and 10^2 .
- All nodes in the graph will be labeled with integers.

Test Cases

Case 1

Description: The sample dataset is not actually run on your code.

Input:

1: 2

2: 3

4: 2

5: 3

Output:

1 4 5 2 3

Case 2

Description: A larger dataset of the same size as that provided by the randomized autograder. Check input/output folders for this dataset.