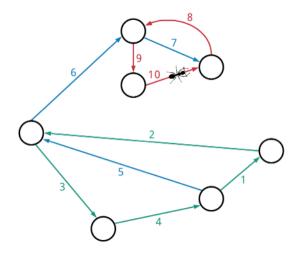
# 3G Find an Eulerian Path in a Graph

#### **Eulerian Path Problem**

Find an Eulerian path in a graph.

Input: A directed graph containing an Eulerian path.

Output: An Eulerian path in this graph.



# **Formatting**

**Input:** An adjacency list representing a directed graph containing an Eulerian path. **Output:** A space-separated list of integers representing an Eulerian path in the graph.

# **Constraints**

- The number of nodes in the graph will be between 1 and 10<sup>4</sup>.
- The number of edges in the graph will be between 1 and  $10^4$ .
- 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:

- 0: 2
- 1: 3
- 2: 1
- 3: 0 4
- 6: 3 7
- 7: 8
- 8: 9
- 9: 6

# **Output:**

6 7 8 9 6 3 0 2 1 3 4

#### Case 2

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

# Input:

- 0: 1
- 1: 2
- 2: 3

# **Output:**

0 1 2 3

#### Case 3

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

# Input:

- 0: 1
- 1: 25
- 2: 3
- 3: 4
- 4: 1

# **Output:**

0 1 2 3 4 1 5

#### Case 4

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

# Input:

- 2: 1 1: 3 4 0
- 3: 1 4 4: 3 1

# **Output:**

2 1 3 1 4 3 4 1 0

#### Case 5

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

# Input:

- 0: 1
- 1: 14 17
- 14: 2 3 4
- 2: 1
- 3: 14
- 4: 5
- 5: 14

# **Output:**

0 1 14 3 14 4 5 14 2 1 17

#### Case 6

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

# Input:

- 2: 3 5
- 3: 4
- 4: 2
- 5: 6
- 6: 2
- 1: 2 0
- 0: 1

#### Output:

1 0 1 2 3 4 2 5 6 2

# Case 7

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