

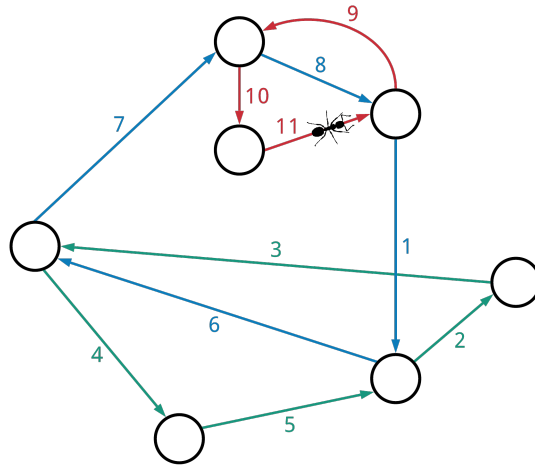
3F Find an Eulerian Cycle in a Graph

Eulerian Cycle Problem

Find an Eulerian cycle in a graph.

Input: An Eulerian directed graph.

Output: An Eulerian cycle in this graph.



Formatting

Input: An adjacency list representing an Eulerian directed graph.

Output: A space-separated list of integers representing an Eulerian cycle in the directed graph.

Constraints

- The number of nodes in the graph will be between 1 and 10^4 .
- 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: 3
1: 0
2: 1 6
3: 2
4: 2
5: 4
6: 5 8
7: 9
8: 7
9: 6
```

Output:

```
3 2 6 8 7 9 6 5 4 2 1 0 3
```

Case 2

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

Input:

```
0: 1
1: 2
2: 0
```

Output:

```
0 1 2 0
```

Case 3

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

Input:

```
0: 3 1
1: 2
2: 0
3: 0
```

Output:

```
0 3 0 1 2 0
```

Case 4

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

Input:

```
0: 1
1: 2 3
2: 0
3: 4
4: 1
```

Output:

```
4 1 2 0 1 3 4
```

Case 5

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

Input:

```
1: 2
2: 1 2
```

Output:

```
2 2 1 2
```

Case 6

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

Input:

```
1: 10
10: 2 3 4
2: 1
3: 10
4: 5
5: 10
```

Output:

```
1 10 4 5 10 3 10 2 1
```

Case 7

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

Input:

```
0:  1 2 3 4
1:  0 2 3 4
2:  0 1 3 4
3:  0 1 2 4
4:  0 1 2 3
```

Output:

```
3 4 3 1 3 0 2 0 4 0 3 2 1 0 1 2 4 1 4 2 3
```

Case 8

Description: A larger dataset of the same size as that provided by the randomized autograder.