Item Navigation

Congratulations! You passed!

Grade received 100% **Latest Submission Grade** 100% **To pass** 80% or higher

Go to next item

Average Weight

Quiz • 30 min

Review Learning Objectives

1. Compute the average weight of a Hamiltonian cycle in the given graph. **1 / 1 point**

```
import networkx as nx

#
# This function takes as input a graph g.
# The graph is complete (i.e., each pair of distinct vertices is connected by an edge),
# undirected (i.e., the edge from u to v has the same weight as the edge from v to u),
# and has no self-loops (i.e., there are no edges from i to i).
#
# The function should return the average weight of a Hamiltonian cycle.
# (Don't forget to add up the last edge connecting the last vertex of the cycle with the first one.)


def average(g):
    # n is the number of vertices.
    n = g.number_of_nodes()

    # Sum of weights of all n*(n-1)/2 edges.
    sum_of_weights = sum(g[i][j]['weight'] for i in range(n) for j in range(i))


    # Write your code here.
    return 2*sum_of_weights / (n-1)
```

Run

Reset

Submit your assignment

Due Jan 1, 11:59 PM IST

Try again

Receive grade

To Pass 80% or higher

Your grade

100%

We keep your highest score

View Feedback

Correct

Good job!

Like **Dislike** **Report an issue**