Good job!

Due Jan 1, 11:59 PM IST

ProPortgratulations! You passed!
Applications Go to next item Grade received 100% Latest Submission Grade 100% To pass 80% or higher Brute Force Algorithm Video: Brute Force Search Quiz • 30 min 11 min **Review Learning Objectives** Quiz: Brute Force Algorithm 1. Implement the brute force algorithm for the Traveling Salesman Problem. The algorithm should check all the permutations of the vertices and return the minimum weight of a cycle visiting 1/1 point Teach weater gracely innce. 1 question 1 import networks as nx Submi
Video: Nearest Neighbor
2 from itertools import permutations Submit your assignment Try again **Due** Jan 1, 11:59 PM IST Quiz: Nearett Nhighbfunction takes as input a graph g. 1 question # The graph is complete (i.e., each pair of distinct vertices is connected by an edge), 6 # undirected (i.e., the edge from u to v has the same weight as the edge from v to u), Visualizing Cydlesnd has no self-loops (Reterve gradeno edges from i to i). Your grade **View Feedback** 8 100% 9 # The function should returorPasse 80% phtightera shortest Hamiltonian cycle. We keep your highest score 10 # (Don't forget to add up the last edge connecting the last vertex of the cycle with the first one.) 11 12 # You can iterate through all permutations of the set $\{0, \ldots, n-1\}$ and find a cycle of the minimum weight. 13 14 √ Dislike Report an issue 15 # n is the number of vertices. 16 17 n = g.number_of_nodes() 18 best_cycle_weight = float('inf') 19 # Iterate through all permutations of n vertices 20 for p in permutations(range(n)): 21 # Write your code here. 22 cur_cycle_weight = 0 23 for i in range(n): 24 cur_cycle_weight += g[p[i]][p[(i+1)%n]]['weight'] 25 if cur_cycle_weight < best_cycle_weight:</pre> 26 best_cycle_weight = cur_cycle_weight 27 28 return best_cycle_weight Run 29 Reset No Output **⊘** Correct