Quiz, 1 question



## Congratulations! You passed!

Next Item



1. In this programming problem you'll code up Dijkstra's shortest-path algorithm.



Download the following text file:

## dijkstraData.txt

The file contains an adjacency list representation of an undirected weighted graph with 200 vertices labeled 1 to 200. Each row consists of the node tuples that are adjacent to that particular vertex along with the length of that edge. For example, the 6th row has 6 as the first entry indicating that this row corresponds to the vertex labeled 6. The next entry of this row "141,8200" indicates that there is an edge between vertex 6 and vertex 141 that has length 8200. The rest of the pairs of this row indicate the other vertices adjacent to vertex 6 and the lengths of the corresponding edges.

Your task is to run Dijkstra's shortest-path algorithm on this graph, using 1 (the first vertex) as the source vertex, and to compute the shortest-path distances between 1 and every other vertex of the graph. If there is no path between a vertex v and vertex 1, we'll define the shortest-path distance between 1 and v to be 1000000.

You should report the shortest-path distances to the following ten vertices, in order: 7.37.59.82.99.115.133.165.188.197. You should encode the distances as a comma-