set variable (total length) as 0 set variable (number of connections) as 0 for each (node1) in | network for each (node2) in | network if node1 != (node2) set variable (path length) as (shortest distance between (node1) and (node2) set variable (total length) as ((total length) + (path length) set variable (number of connections) as ((number of connections) + 1print The average path length in the network is (total length) / (number of connections)