## Find shortest path algorithm get data generate a list of all node candidates set the initial node (successor) path costs to zero set the initial node (successor) path list to empty while length of candidates list > 0 try to pop the node with the minimum path costs from the candidates list id of poped min candidate is equal to the id of the end node Т F append end node id to the path of min candidate Ø break append the min candidate to the poped list the id of min candidate is not in the path of the min candidate F Т append the id of the min candidate set the path to "NO PATH" to its path list set the path costs to infinity break try to assign (update) the refreshed path of min candidate in the list of candidates foreach key in the adjacency of the min candidate try to check if the key is not in the list of poped nodes F Т call updateNode(startNode, nextNode) generate a sub dictionary from the start node try to check if the path costs of the next node in the candidates list are higher than the path costs of the start node in the poped list plus the current edge costs, Ø F assign the lower costs to the path costs of the next node in the candidates list Ø assign the corresponding path with the lower costs to the next node in the candidates list