

Full desk checking for Dijkstra(graph,origin) function:

[illegible]

			'C': 20, 'D':25, 'E':60}	'D':B', 'E':B'}	to new loop										
	None	Node = 'D'	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':60}	{'B': 'A', 'C': 'A', 'D':B', 'E':B'}	Yes	Yes, min_node = 'D'	Visited['D'] < visited ['D'] = 25 < 25? no								
	D	Node = 'E'	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':60}	{'B': 'A', 'C': 'A', 'D':B', 'E':B'}	Yes	no	Visited['E'] < visited['D'] = 60 < 25? no	Nodes.remove('D')	nodes = {'F', 'G', 'E'}	Current_weight = 25	Graph.edges['D'] = 'B','C','E' Edge = 'B'	Weight = 25 + Graph.distances['D','B'] = error	No, B is in visited	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':60}	{'B': 'A', 'C': 'A', 'D':B', 'E':B'}
											Edge = 'C'	Weight = 25 + Graph.distances['D','C'] = error	No, C is in visited	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':60}	{'B': 'A', 'C': 'A', 'D':B', 'E':B'}
											Edge = 'E'	Weight = 25 + Graph.distances['D','E'] = 25 + 30 = 55	Yes, weight < visited['E'] = 55 < 60 Visited['E']= 55 Path['E']= 'D'	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55}	{'B': 'A', 'C': 'A', 'D':B', 'E':D'}
Yes, nodes = {'F', 'G', 'E'}	None	Node = 'F'	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55}	{'B': 'A', 'C': 'A', 'D':B', 'E':D'}	No, proceed to new loop										
	None	Node = 'G'	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55}	{'B': 'A', 'C': 'A', 'D':B', 'E':D'}	No, proceed to new loop										
	None	Node = 'E'	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55}	{'B': 'A', 'C': 'A', 'D':B', 'E':D'}	Yes	Yes, min_node = 'E'	Visited['E'] < visited ['E'] = 55 < 55? no	Nodes.remove('E')	nodes = {'F', 'G'}	Current_weight = 55	Graph.edges['E'] = 'B','D','F' Edge = 'B'	Weight = 55 + Graph.distances['E','B'] = error	No, B is in visited	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55}	{'B': 'A', 'C': 'A', 'D':B', 'E':D'}
											Edge = 'D'	Weight = 55 + Graph.distances['E','D'] = error	No, D is in visited	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55}	{'B': 'A', 'C': 'A', 'D':B', 'E':D'}
											Edge = 'F'	Weight = 55 + Graph.distances['E','F'] = 55 + 5 = 60	Yes, edge not in visited Visited['F'] = 60 Path['F'] = 'E'	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55, 'F':60}	{'B': 'A', 'C': 'A', 'D':B', 'E':D, 'F':E'}
Yes, nodes = {'F', 'G',}	None	Node = 'F'	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55, 'F':60}	{'B': 'A', 'C': 'A', 'D':B', 'E':D, 'F':E'}	Yes	Yes, min_node = 'F'	Visited['F'] < visited ['F'] = 60 < 60? no	Nodes.removes('F')	nodes = {'G'}	Current_weight = 60	Graph.edges['F'] = 'E','G' Edge = 'E'	Weight = 60 + Graph.distances['F','E'] = error	No, E is in visited	{'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55, 'F':60}	{'B': 'A', 'C': 'A', 'D':B', 'E':D, 'F':E'}
											Edge = 'G'	Weight = 60 + Graph.distances['F','G'] = 60 + 2 = 62	Yes, edge not in visited	{'A': 0, 'B': 10, 'C': 20,	{'B': 'A', 'C': 'A', 'D':B',

													Visited['G'] = 62 Path['G'] = 'F'	'D':25, 'E':55, 'F':60, 'G':62}	'E': 'D', 'F': 'E', 'G': 'F'}
Yes, nodes = {'G'}	None	Node = 'G'	{ 'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55, 'F':60, 'G':62}	{ 'B': 'A', 'C': 'A', 'D': 'B', 'E': 'D', 'F': 'E', 'G': 'F'}	Yes	Yes, min_node = 'G'	Visited['G'] < visited ['G'] = 62 < 62? no	Nodes.remove('G')	nodes = {}	Current_weight= 62	Graph.edges['G'] = 'F' Edge = 'F'	Weight = 62 + Graph.distances['G','F'] = error	No, F is in visited	{ 'A': 0, 'B': 10, 'C': 20, 'D':25, 'E':55, 'F':60, 'G':62}	{ 'B': 'A', 'C': 'A', 'D': 'B', 'E': 'D', 'F': 'E', 'G': 'F'}