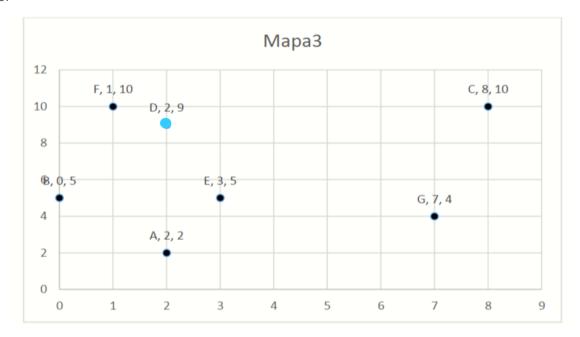
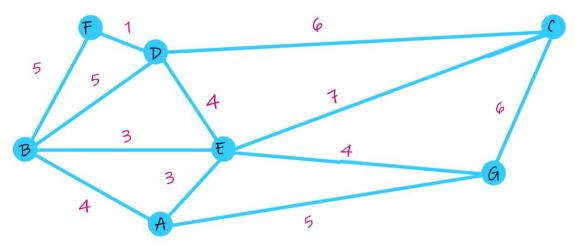
Travelling Salesman Problem

Solved using Dijkstra's Algorithm

Mohammad Ehsan Shah

15767





Distance between coordinates =
$$\sqrt{((x^2 - x^1)^2 + (y^2 - y^1)^2)}$$

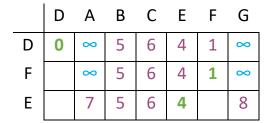
Dijkstra Algorithm

if
$$d(i) + C(i,j) < d(j)$$
 then $d(j) = d(i) + C(i,j)$

Visited Not Visited Not in Reach

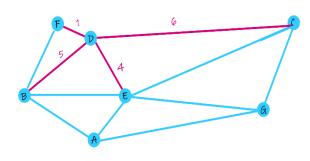
					Ε		
D	0	∞	5	6	4	1	∞

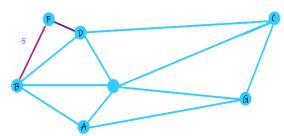
	D	Α	В	С	Ε	F	G
D	0	∞	5	6	4	1	8
F		∞	5	6	4	1	∞

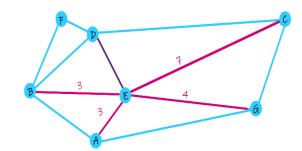


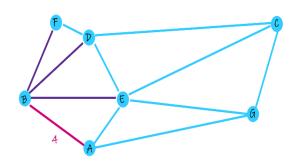
	D	Α	В	С	Ε	F	G
D	0	8	5	6	4	1	8
F		8	5	6	4	1	8
Ε		7	5	6	4		8
В		7	5	6			8

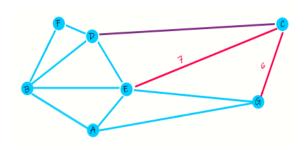
	D	Α	В	С	Ε	F	G
D	0	8	5	6	4	1	8
F		8	5	6	4	1	8
Ε		7	5	6	4		8
В		7	5	6			8
С		7		6			8



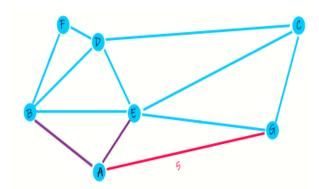








	D	Α	В	С	Ε	F	G
D	0	8	5	6	4	1	8
F		8	5	6	4	1	8
Ε		7	5	6	4		8
В		7	5	6			8
С		7		6			8
Α		7					8



	D	Α	В	С	Ε	F	G
D	0	8	5	6	4	1	8
F		8	5	6	4	1	8
Ε		7	5	6	4		8
В		7	5	6			8
С		7		6			8
Α		7					8
G							8

