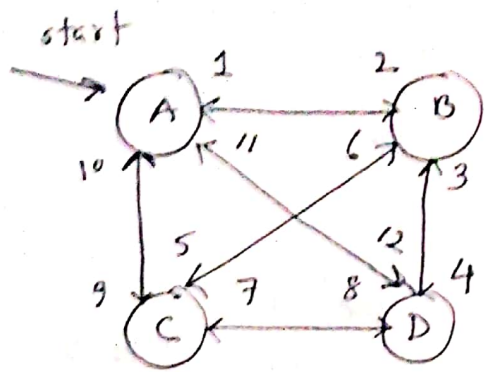


Traveling Salesperson Algorithm:



New population	Fitness
A B C D A	$2 + 7 + 8 + 11 = 28$
A D C B A	$12 + 7 + 6 + 1 = 26$
A C B D A	$9 + 6 + 4 + 11 = 30$
A B C D A	$9 + 8 + 8 + 12 = 37$
A B D C A	$2 + 4 + 7 + 10 = 25$
Min = 25	

New population	Fitness
A D C B A	$12 + 7 + 6 + 1 = 26$
A D B C A	$12 + 3 + 5 + 10 = 30$
A B D C A	$2 + 4 + 7 + 10 = 25$
A C D B A	$9 + 8 + 3 + 1 = 21$
Min = 21	

New population

Fitness

A B D C A

25

~~A D B C A~~

~~35~~

A B C D A

28

A C D B A

21

A C B D A

$9 + 6 + 4 + 11 = 30$

Min = 21

Optimal Tour : A C D B A

Tour cost : 21