1. UE assignment

2. Compute Marginal cost:

Note: d = link length

n = number of lanes

x = link volume

3. Calculate Link surcharge

(1/ n) \* linkMarginalCost + (1-(1/n)) \* linkToll\_last)

4. Update Demand

Traverse all OD pair until all shortest path total cost >= original OD pair cost

For each OD pair {

Find shortest path (with update link travel time cost and link surcharge);

Calculate the shortest path total cost;

If shortest path total cost < original OD pair cost {

Load 5% of original demand;

Update link travel time cost:

Note: d = link length

n = number of lanes

x = link volume

}

}