STEP 1: **Solve the subproblem: *Find the order of customers corresponding to the shortest path starting at customer and ending at customer that visits every customer exactly once.***

Consider a network with each customer is a node (from 1 to n) and the road between 2 customers is an arc. is the set of nodes and is the set of all feasible arcs. The storage is associated with node

Each node in associated with a time window which is the time that the customer able to receive the package and a time show the time required for delivery.

Each arc in associated with a time which is the time travelling between node and node , and a distance between node and node .

An arc is feasible if , therefore it belongs to , the inverse holds true.

A path in the network is defined as a sequence of nodes such that each arc belongs to , gone through by the deliveryman and the time delivery begins at node , is within the time window of that node.

To find the solution, we need to find the shortest feasible path starting at node and ending at node that visits every node in exactly once.

Defineas the time spent of the shortest path starting at node , passing through every node of exactly once , ending at node , and ready to delivery node .

Create a collection contains elements named to save the order of customers corresponding to the path having time . Since can be obtained from different , we declare another collection named in order to save the best path along with its order and compare every time computing other paths.

Defineas the time spent of the shortest path starting at node , passing through every node of exactly once , ending at node , and ready to delivery node .

To compute , choose from all other nodes in except and , if arc is feasible, a path can be built include the path of then go through arc to node . However, if arc does not belong to A, there is no path exists, we come to a convention says that .

Therefore, the function can be computed by solving recurrence equations:

for all . The recursion formula is initialized by:

STEP 2: **Find all solutions of subproblems.**

STEP 3: **Now back to the problem:** The solution of the problem is the order of customers corresponding to time Best path per subproblems.