Data structures:

V – vehicles

: the time the vehicle arrives at its departing stop for the epoch

: the number of passengers currently in the vehicle

: is the set of dropoff requests for on-board passengers

: the vehicle start time

: the vehicle end time

: the capacity of the vehicle

G-graph of request data

Contains the nodes for each possible pick up and delivery

Types od nodes:

1. P – pickupNodes {1,…,n}
2. D – Associated DropOff nodes {n+1,…2n}
3. I – all the dropoof nodes of passengers on vehickles
4. O – Source Start Node
5. S -Sink End Node

is the time to take freform those pickuips/drop offs , and

Requests:

Each node is associated with request

: the earliest possible pickup time.

: pickup location

: dropoff location

: num of passengers (me alone or with family)

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: every request is associated with the time on which the request was picked up