Report for Project 4 CS 32:

Average big-O of each method:

1. Street Map:
   1. load(): If N is the number of street segments in the map data, load() is O(N).
   2. getSegmentsThatStartWith(): The big-O of getSegmentsThatStartWith() is O(1) since it use find() in Expandable hash map implemented by hash table.
2. Point To Point Router:
   1. GeneratePointToPointRoute(): I used A\* algorithm in this function, but the time complexity is varied from point to point on the map. If there are average B branches for each GeoCoord and the overall route depth is N (the branching factor), and N is the depth of end point from the start, the big-O is O(B^N);
3. DeliveryOptimizer:
   1. optimizeDeliveryOrder(): I used simulated annealing algorithm for this function, but the time complexity depends on the maximum temperature, annealing coefficient, and length of Markov Chain. In my program, the max temperature has linear relationship with number of deliveries, and the chain length is square of number of deliveries. Therefore, the big-O is O(N^3);