

Workload

Abd El Rahman Ahmed Fadi	Data structure
Saad Badr	Simulation function, Cancelation class
Abd El Rahman Akram	load function and other classes data members
Tarek Samy	load function and other classes data members

Project document

Our choices

- For motorcycles: we used normal queue as long as there is no need for something special to use. The most frequent operation is insertion which is $O(1)$ and removing which is $O(1)$.
- For VIP orders: we used a priority-queue with binary search tree based implementation, the most frequent operation is searching in the tree to keep the order which is $O(\log n)$.
- For frozen and normal orders: we used a normal queue.