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| --- | --- | --- | --- |
| List | Data structure | Reason | Complexity |
| VIP order | Priority Queue | To be able to add and remove orders depending on priority which depends on the priority equation | N |
| Vegan order | Queue | Because it the orders must be assigned depending on arrival time so what arrive first finishes first | N |
| Normal Order | List | To be able to arrange it according to the arrival time and delete elements from anywhere in the list in case of cancel and promotion events | N |
| Cooks | List | All types of cooks will be implemented in list ADT to be able to go over all the cook and assign orders to the cooks that are free and we used list to arrange them according to their speed in order to help us in the bonus section | N |
| Event | Queue | This is to get events in their time steps as other events are not important now | Constant |