Polar and Mountainous Missions:

* Each list is implemented as a queue as it mentioned in the project document; they get assigned based on a first come first served basis.

Emergency Missions:

* They get implemented in a priority queue depending on the priority of each mission (according to the priority equation that includes these factors: the mission formulation day, how far is the mission’s target location, the mission’sduration, and the mission’s significance.)

In more details:

Waiting Emergency Missions is implemented as a priority queue;

Waiting Mountainous Missions is implemented as a linked list (but behaves as a queue in adding or deleting nodes)

Waiting Polar Missions is implemented as Linked Queue;

In-Execution Missions is implemented as a linked list;

Finished missions is implemented as a Linked List;

**Events are implemented as a linked Queue;**

**Rover check-up list is implemented as a linked list (due to the different check-up durations)**

Available Polar Rovers is implemented as a linked list;

Available Mountainous Rovers is implemented as a linked list;

Available Emergency Rovers is implemented as a linked list;

Last-Day Missions And Rovers is implemented as a linked Queue;