Cairo University

Faculty of Engineering

DATA STRUCTURES AND ALGORITHMS
CMPN102
MARS EXPLORATION PROJECT
PHASE2

Member's name	ID	Email
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Workload:

Abdelrahman Ezzat	Omar Amin
- Reading Input in UI - Output file in UI - Priority Queue DS - Modes of operation - Move rovers to execution and checkup	- Formulation event - Cancellation event - Promotion event - Modes of operation - Move rovers to Maintenance
Amr Ahmed	Yomna Osama
- Action Class Assigning Rovers to missions Check Waiting Mission Move to execution Auto Promotion - Move rovers to execution and checkup - Queue DS	- Action Class Assigning Rovers to missions Check Waiting Mission Move to execution Auto Promotion - Move rovers to Maintenance - Move rovers to execution and checkup - Hashtable DS

Bonus:

1- Mountainous: promotion, Cancellation (Completed the project with all cancelled parts)

2- Completed missions in output file are sorted according to CD and if they have same CD they are ordered by ED

3- Auto Promotion

4- Rover's speed

5- Rover's maintenance