

**Cairo University**

**Faculty of Engineering**

**pr**

Data Structures and Algorithms  
Cmpn102  
Mars exploration Project  
Phase2

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| Member’s name | ID | Email |
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# Workload:

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| 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