

DATA STRUCTURES AND ALGORITHMS

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OUTPUT SCREENSHOTS

Q1.

```
C:\Users\HP\OneDrive - Chan x + v
Enter number of members: 3
Enter name of member 1: rakshitha
Enter 30 days step count:
15000 16000 17000 18000 19000 20000 21000 22000 23000 24000
10000 10500 11000 11500 12000 12500 13000 13500 14000 14500
9500 9600 9700 9800 9900 10050 10100 10200 10300 10400
Enter name of member 2:
chinmayi
Enter 30 days step count:
5000 6000 5500 7000 6500 8000 7500 6800 7200 6900
7100 7300 7600 7400 7800 8000 8200 8500 8300 8100
9000 9200 9500 9800 9700 9900 9600 9400 9300 9100
Enter name of member 3: lavanya
Enter 30 days step count:
11000 8000 9500 12000 13000 7000 10500 9800 15000 10000
11300 9000 14000 10200 10700 6000 7500 12300 9700 11100
8000 10500 10100 9900 16000 9300 10800 12000 10300 11500

Member: rakshitha
Days above 10000 steps : 24
Maximum steps recorded : 24000

Member: chinmayi
Days above 10000 steps : 0
Maximum steps recorded : 9900

Member: lavanya
Days above 10000 steps : 18
Maximum steps recorded : 16000

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Process exited after 79.85 seconds with return value 0
Press any key to continue . . . |
```

Q2.

```
C:\Users\HP\OneDrive - Chan x + v
Original Playlist:
101 -> 102 -> 103 -> 104 -> 105 -> 106 -> 107 -> NULL
Enter m and n: 2 5
Modified Playlist:
101 -> 105 -> 104 -> 103 -> 102 -> 106 -> 107 -> NULL

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Process exited after 34.39 seconds with return value 0
Press any key to continue . . . |
```

Q3.

```
C:\Users\HP\OneDrive - Chan x + v
Enter string: programming
Character Frequencies:
(p, 1) (r, 1) (o, 1) (g, 1) (r, 1) (a, 1) (m, 2) (i, 1) (n, 1) (g, 1)
-----
Process exited after 25.29 seconds with return value 0
Press any key to continue . . .
```

Q4.

```
C:\Users\HP\OneDrive - Chan x + v
Call added: 101
Call added: 102
Call added: 103
Call added: 104
Call added: 105
Customers in queue: 101 102 103 104 105
Queue is full. Please wait.
Removed customer: 101
Removed customer: 102
Customers in queue: 103 104 105
Call added: 104
Call added: 105
Queue is full. Please wait.
Queue is full. Please wait.
Customers in queue: 103 104 105 104 105
-----
Process exited after 0.1626 seconds with return value 0
Press any key to continue . . .
```

Q5.

```
C:\Users\HP\OneDrive - Chan x + v
Call added: 101
Call added: 102
Call added: 103
Call added: 104
Call added: 105
Customers in queue: 101 102 103 104 105
Queue is full. Please wait.
Removed customer: 101
Removed customer: 102
Customers in queue: 103 104 105
Call added: 104
Call added: 105
Queue is full. Please wait.
Queue is full. Please wait.
Customers in queue: 103 104 105 104 105
-----
Process exited after 0.1626 seconds with return value 0
Press any key to continue . . .
```