

COP 5536 Fall 2024

Programming Project - Test Cases

Gator Ticket Master

Testcase 1:

Input

```
Initialize(4)
Available()
Reserve(8, 1)
Reserve(4, 3)
Reserve(5, 2)
Cancel(2, 4)
Reserve(1, 1)
Available()
PrintReservations()
Reserve(3, 1)
Reserve(2, 2)
Reserve(6, 3)
Available()
Cancel(1, 1)
Cancel(3, 5)
Available()
Reserve(11, 1)
Reserve(9, 2)
AddSeats(2)
Reserve(7, 2)
Cancel(1, 8)
Available()
ReleaseSeats(8, 10)
PrintReservations()
Quit()
```

Output

```
4 Seats are made available for reservation
Total Seats Available : 4, Waitlist : 0
User 8 reserved seat 1
User 4 reserved seat 2
User 5 reserved seat 3
User 4 canceled their reservation
User 1 reserved seat 2
Total Seats Available : 1, Waitlist : 0
Seat 1, User 8
Seat 2, User 1
```

```
Seat 3, User 5
User 3 reserved seat 4
User 2 is added to the waiting list
User 6 is added to the waiting list
Total Seats Available : 0, Waitlist : 2
User 1 has no reservation for seat 1 to cancel
User 5 canceled their reservation
User 6 reserved seat 3
Total Seats Available : 0, Waitlist : 1
User 11 is added to the waiting list
User 9 is added to the waiting list
Additional 2 Seats are made available for reservation
User 2 reserved seat 5
User 9 reserved seat 6
User 7 is added to the waiting list
User 8 canceled their reservation
User 7 reserved seat 1
Total Seats Available : 0, Waitlist : 1
Reservations of the Users in the range [8, 10] are released
User 11 reserved seat 6
Seat 1, User 7
Seat 2, User 1
Seat 3, User 6
Seat 4, User 3
Seat 5, User 2
Seat 6, User 11
Program Terminated!!
```

Testcase 2:

Input

```
Initialize(10)
Reserve(2, 1)
Reserve(6, 2)
Reserve(13, 1)
Reserve(15, 3)
Reserve(9, 4)
Cancel(3, 13)
Reserve(4, 2)
Reserve(7, 1)
Reserve(8, 2)
Reserve(66, 1)
ReleaseSeats(10, 100)
Reserve(52, 1)
Reserve(41, 2)
Reserve(13, 1)
Reserve(1, 3)
Reserve(14, 1)
Reserve(15, 1)
Reserve(121, 3)
Reserve(161, 2)
Reserve(180, 4)
```

```
UpdatePriority(15, 2)
Reserve(72, 2)
Reserve(81, 3)
Reserve(66, 2)
Reserve(91, 1)
Reserve(99, 1)
Reserve(86, 2)
AddSeats(10)
Available()
PrintReservations()
Quit()
```

Output

```
10 Seats are made available for reservation
User 2 reserved seat 1
User 6 reserved seat 2
User 13 reserved seat 3
User 15 reserved seat 4
User 9 reserved seat 5
User 13 canceled their reservation
User 4 reserved seat 3
User 7 reserved seat 6
User 8 reserved seat 7
User 66 reserved seat 8
Reservations of the Users in the range [10, 100] are released
User 52 reserved seat 4
User 41 reserved seat 8
User 13 reserved seat 9
User 1 reserved seat 10
User 14 is added to the waiting list
User 15 is added to the waiting list
User 121 is added to the waiting list
User 161 is added to the waiting list
User 180 is added to the waiting list
User 15 priority has been updated to 2
User 72 is added to the waiting list
User 81 is added to the waiting list
User 66 is added to the waiting list
User 91 is added to the waiting list
User 99 is added to the waiting list
User 86 is added to the waiting list
Additional 10 Seats are made available for reservation
User 180 reserved seat 11
User 121 reserved seat 12
User 81 reserved seat 13
User 15 reserved seat 14
User 161 reserved seat 15
User 72 reserved seat 16
User 66 reserved seat 17
User 86 reserved seat 18
User 14 reserved seat 19
User 91 reserved seat 20
```

```
Total Seats Available : 0, Waitlist : 1
Seat 1, User 2
Seat 2, User 6
Seat 3, User 4
Seat 4, User 52
Seat 5, User 9
Seat 6, User 7
Seat 7, User 8
Seat 8, User 41
Seat 9, User 13
Seat 10, User 1
Seat 11, User 180
Seat 12, User 121
Seat 13, User 81
Seat 14, User 15
Seat 15, User 161
Seat 16, User 72
Seat 17, User 66
Seat 18, User 86
Seat 19, User 14
Seat 20, User 91
Program Terminated!!
```

Testcase 3:

Input

```
Initialize(3)
Reserve(6, 2)
Reserve(1, 1)
Reserve(9, 3)
Reserve(2, 2)
Reserve(5, 1)
Reserve(4, 3)
Reserve(3, 2)
Available()
ExitWaitlist(9)
UpdatePriority(6, 3)
UpdatePriority(3, 3)
AddSeats(3)
Available()
Cancel(3, 9)
Reserve(9, 3)
Reserve(12, 2)
Reserve(18, 1)
Reserve(17, 3)
ReleaseSeats(6, 11)
UpdatePriority(18, 3)
AddSeats(2)
PrintReservations()
Quit()
```

```
Release(1, 12)
PrintReservations()
```

Output

```
3 Seats are made available for reservation
User 6 reserved seat 1
User 1 reserved seat 2
User 9 reserved seat 3
User 2 is added to the waiting list
User 5 is added to the waiting list
User 4 is added to the waiting list
User 3 is added to the waiting list
Total Seats Available : 0, Waitlist : 4
User 9 is not in waitlist
User 6 priority is not updated
User 3 priority has been updated to 3
Additional 3 Seats are made available for reservation
User 4 reserved seat 4
User 3 reserved seat 5
User 2 reserved seat 6
Total Seats Available : 0, Waitlist : 1
User 9 canceled their reservation
User 5 reserved seat 3
User 9 is added to the waiting list
User 12 is added to the waiting list
User 18 is added to the waiting list
User 17 is added to the waiting list
Reservations of the Users in the range [6, 11] are released
User 17 reserved seat 1
User 18 priority has been updated to 3
Additional 2 Seats are made available for reservation
User 18 reserved seat 7
User 12 reserved seat 8
Seat 1, User 17
Seat 2, User 1
Seat 3, User 5
Seat 4, User 4
Seat 5, User 3
Seat 6, User 2
Seat 7, User 18
Seat 8, User 12
Program Terminated!!
```