

*The red characters are user's inputs.*

### Sample Input / Output 1

Welcome to table management system! Please initialize your tables first.

Please enter the total number of tables: 10

Decide the number of tables whose size is 10: 2

Seats remaining: 80

Decide the number of tables whose size is 8: 2

Seats remaining: 64

Decide the number of tables whose size is 6: 2

Seats remaining: 52

Decide the number of tables whose size is 4: 2

Seats remaining: 44

Decide the number of tables whose size is 2: 2

Seats remaining: 40

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

1

Table 1 --- Size: 10 Available

Table 2 --- Size: 10 Available

Table 3 --- Size: 8 Available

Table 4 --- Size: 8 Available

Table 5 --- Size: 6 Available

Table 6 --- Size: 6 Available

Table 7 --- Size: 4 Available

Table 8 --- Size: 4 Available

Table 9 --- Size: 2 Available

Table 10 --- Size: 2 Available

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership

- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

7

Please enter the total number of tables: 10

Decide the number of tables whose size is 10: 10

Seats remaining: 0

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

1

Table 1 --- Size: 10 Available

Table 2 --- Size: 10 Available

Table 3 --- Size: 10 Available

Table 4 --- Size: 10 Available

Table 5 --- Size: 10 Available

Table 6 --- Size: 10 Available

Table 7 --- Size: 10 Available

Table 8 --- Size: 10 Available

Table 9 --- Size: 10 Available

Table 10 --- Size: 10 Available

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

0

Program Ends.

**Sample Input / Output 2**

Welcome to table management system! Please initialize your tables first.

Please enter the total number of tables: 10

Decide the number of tables whose size is 10: 2

Seats remaining: 80

Decide the number of tables whose size is 8: 2

Seats remaining: 64

Decide the number of tables whose size is 6: 2

Seats remaining: 52

Decide the number of tables whose size is 4: 2

Seats remaining: 44

Decide the number of tables whose size is 2: 2

Seats remaining: 40

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

2

Table 1 --- Size: 10 Available

Table 2 --- Size: 10 Available

Table 3 --- Size: 8 Available

Table 4 --- Size: 8 Available

Table 5 --- Size: 6 Available

Table 6 --- Size: 6 Available

Table 7 --- Size: 4 Available

Table 8 --- Size: 4 Available

Table 9 --- Size: 2 Available

Table 10 --- Size: 2 Available

Please select the table you want to manage: 1

Please select the number of your command:

- 1.Occupy
- 2.Reserve

1

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables

- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

1

Table 1 --- Size: 10 Occupied Bill Price: 0

Table 2 --- Size: 10 Available

Table 3 --- Size: 8 Available

Table 4 --- Size: 8 Available

Table 5 --- Size: 6 Available

Table 6 --- Size: 6 Available

Table 7 --- Size: 4 Available

Table 8 --- Size: 4 Available

Table 9 --- Size: 2 Available

Table 10 --- Size: 2 Available

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

8

Table 1 occupied for 5 seconds.

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

6

Table 1 --- Size: 10 Occupied Bill Price: 0

Please select the table you want to manage: 1

Please select your option:

- 1.Manage Order
- 2.Check

1

Current bill price: 0

Select your option:

- 1.Add a order
- 2.Delete an order

1

Total price added: 1200

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

6

Table 1 --- Size: 10 Occupied Bill Price: 1200

Please select the table you want to manage: 1

Please select your option:

- 1.Manage Order
- 2.Check

2

Are you a member? 0.Yes 1.No

0

Please enter member's name:

CM

You are a member. Your discounted price is: 960

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables

8.Check Occupation Time

5

Please enter your desired size: 8

Table 3 is currently available.

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

0

Program Ends.

### **Sample Input / Output 3**

Welcome to table management system! Please initialize your tables first.

Please enter the total number of tables: 10

Decide the number of tables whose size is 10: 2

Seats remaining: 80

Decide the number of tables whose size is 8: 2

Seats remaining: 64

Decide the number of tables whose size is 6: 2

Seats remaining: 52

Decide the number of tables whose size is 4: 2

Seats remaining: 44

Decide the number of tables whose size is 2: 2

Seats remaining: 40

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

3

Please select your option:

- 1.Add one customer to waiting line;
- 2.Show the count of people waiting before certain customer;
- 3.Delete one customer from waiting line.

1

Your index number is 1

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

Please select your option:

- 1.Add one customer to waiting line;
- 2.Show the count of people waiting before certain customer;
- 3.Delete one customer from waiting line.

2

Please input the customer's index you want to look for: 2

1 people waiting before you.

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

0

Program Ends.

#### **Sample Input / Output 4**

Welcome to table management system! Please initialize your tables first.

Please enter the total number of tables: 10

Decide the number of tables whose size is 10: 2

Seats remaining: 80

Decide the number of tables whose size is 8: 2

Seats remaining: 64

Decide the number of tables whose size is 6: 2

Seats remaining: 52

Decide the number of tables whose size is 4: 2

Seats remaining: 44

Decide the number of tables whose size is 2: 2

Seats remaining: 40

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

4

Please select your option:

- 1.Register a member
- 2.Show one's membership information

1

Please enter member's name:

Ollie

Please enter member's gender (M / F):

M

Please enter member's phone number:

51230845

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

4

Please select your option:

- 1.Register a member
- 2.Show one's membership information

2



Please enter member's name:

Ollie

Ollie M 51230845

\*\*\*\*\* Table Management System \*\*\*\*\*

Please choose your option:

- 0.Exit
- 1.Display Tables
- 2.Manage Tables
- 3.Manage Queue
- 4.Manage Membership
- 5.Suggest Vacant Table
- 6.Manage Orders
- 7.Reset Tables
- 8.Check Occupation Time

0

Program Ends.