# 1340 Course Project-Table Management System

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Sample I/O(user inputs are highlighted in yellow)

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*Sample test case 6(custom setting, use all functions)*

```
Choose your layout:
-----------------------------------------------------
1: Default setting (maximum number of tables)
2: Spring setting    (deleted one row)
3: Summer setting    (large tables are at the corner)
4: Autumn setting    (deleted two columns for space)
5: Winter setting    (fewer tables)
6: Custom setting    (input your own layout)
-----------------------------------------------------
Please select (1 to 6): 6
Please input your layout (with 3 rows x 5 columns, input 0 if there is no table)
0 8 0 8 0
4 0 4 0 4
0 2 0 2 0
--------------------
Current layout:
X-X 8-8 X-X 8-8 X-X
4-4 X-X 4-4 X-X 4-4
X-X 2-2 X-X 2-2 X-X
--------------------
Input the corresponding number
---------------------------------------
1: Occupy a table
2: Release a table
3. Check tables occupied for too long
4. Show current availibility of seats
5. End program
---------------------------------------
Your input: 1
Number of customer (1-8): 4
4 customers are assigned to table R1C0
```

---
Current layout:
X-X 8-8 X-X 8-8 X-X
4-0 X-X 4-4 X-X 4-4
X-X 2-2 X-X 2-2 X-X
---
Input the corresponding number
---
1: Occupy a table
2: Release a table
3. Check tables occupied for too long
4. Show current availability of seats
5. End program
---
Your input: 1
Number of customer (1-8): 8
8 customers are assigned to table R0C1
---
Current layout:
X-X 8-0 X-X 8-8 X-X
4-0 X-X 4-4 X-X 4-4
X-X 2-2 X-X 2-2 X-X
---
Input the corresponding number
---
1: Occupy a table
2: Release a table
3. Check tables occupied for too long
4. Show current availability of seats
5. End program
---
Your input: 1
Number of customer (1-8): 2
2 customers are assigned to table R2C1
---
Current layout:
X-X 8-0 X-X 8-8 X-X
4-0 X-X 4-4 X-X 4-4

X-X 2-0 X-X 2-2 X-X

---

Input the corresponding number

---

1: Occupy a table

2: Release a table

3. Check tables occupied for too long

4. Show current availability of seats

5. End program

---

Your input: 1

Number of customer (1-8): 8

8 customers are assigned to table R0C3

---

Current layout:

X-X 8-0 X-X 8-0 X-X

4-0 X-X 4-4 X-X 4-4

X-X 2-0 X-X 2-2 X-X

---

Input the corresponding number

---

1: Occupy a table

2: Release a table

3. Check tables occupied for too long

4. Show current availability of seats

5. End program

---

Your input: 1

Number of customer (1-8): 8

4 customers are assigned to table R1C2

4 customers are assigned to table R1C4

---

Current layout:

X-X 8-0 X-X 8-0 X-X

4-0 X-X 4-0 X-X 4-0

X-X 2-0 X-X 2-2 X-X

---

Input the corresponding number

---
1: Occupy a table
2: Release a table
3. Check tables occupied for too long
4. Show current availability of seats
5. End program
---
Your input: 1
Number of customer (1-8): 2
2 customers are assigned to table R2C3
---
Current layout:
X-X 8-0 X-X 8-0 X-X
4-0 X-X 4-0 X-X 4-0
X-X 2-0 X-X 2-0 X-X
---
Input the corresponding number
---
1: Occupy a table
2: Release a table
3. Check tables occupied for too long
4. Show current availability of seats
5. End program
---
Your input: 2
---
Current layout:
X-X 8-0 X-X 8-0 X-X
4-0 X-X 4-0 X-X 4-0
X-X 2-0 X-X 2-0 X-X
---
Please input the row and column of the table and the number of customers left
Row number: 0
Column number: 1
Number of customers left: 8
---
Current layout:
X-X 8-8 X-X 8-0 X-X

4-0 X-X 4-0 X-X 4-0
X-X 2-0 X-X 2-0 X-X
---
Input the corresponding number
---
1: Occupy a table
2: Release a table
3. Check tables occupied for too long
4. Show current availability of seats
5. End program
---
Your input: 4
---
Current layout:
X-X 8-8 X-X 8-0 X-X
4-0 X-X 4-0 X-X 4-0
X-X 2-0 X-X 2-0 X-X
---
Input the corresponding number
---
1: Occupy a table
2: Release a table
3. Check tables occupied for too long
4. Show current availability of seats
5. End program
---
Your input: 3
2 customers occupied table R2C3 for too long.
4 customers occupied table R1C4 for too long.
4 customers occupied table R1C2 for too long.
8 customers occupied table R0C3 for too long.
2 customers occupied table R2C1 for too long.
4 customers occupied table R1C0 for too long.
Would you like those customers to leave?
Your choice(Y/N): Y
---
Current layout:
X-X 8-8 X-X 8-8 X-X

4-4 X-X 4-4 X-X 4-4

X-X 2-2 X-X 2-2 X-X

---

Input the corresponding number

---

1: Occupy a table

2: Release a table

3. Check tables occupied for too long

4. Show current availability of seats

5. End program

6. ----------

Your input: 5

Today a total of 32 customers visited our deli.

See output.txt for more details.

End of program.

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*output.txt*

Accumulated total number of customers:

182

Total number of customers for today:

32

Program ended at:

Sat Apr 27 16:48:09 2019

Full record of today's customers (in descending order)

2 customers came in and occupied table R2C3

4 customers came in and occupied table R1C4

4 customers came in and occupied table R1C2

8 customers came in and occupied table R0C3

2 customers came in and occupied table R2C1

8 customers came in and occupied table R0C1

4 customers came in and occupied table R1C0