1340 Course Project-Table Management System

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

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   (less tables)

6: Custom setting   (input your own layout)

Please select (1 to 6): <mark>6</mark>

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: <mark>1</mark>

Number of customer (1-8): <mark>4</mark>

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 availibility 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 availibility 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 availibility 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 availibility 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 availibility 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

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 availibility 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 availibility 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 availibility of seats

5. End program

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