

1340 Course Project-Table Management System

Contributors:

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

Sample test case 4 (autumn setting, occupied tables until customers have to seat separately and release a table when the customer is overtime, i.e. in this case is 20 seconds)

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): 4

Current layout:

8-8 X-X 8-8 X-X 8-8

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

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

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 R0C0

Current layout:

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

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

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

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 R0C2

Current layout:

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

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

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

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 R0C4

Current layout:

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

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

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

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): 6

4 customers are assigned to table R1C0

2 customers are assigned to table R1C2

Current layout:

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

4-0 X-X 4-2 X-X 4-4

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

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 R1C2 for too long.

4 customers occupied table R1C0 for too long.

8 customers occupied table R0C4 for too long.

8 customers occupied table R0C2 for too long.

8 customers occupied table R0C0 for too long.

Would you like those customers to leave?

Your choice(Y/N): Y

Current layout:

8-8 X-X 8-8 X-X 8-8

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

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

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: 5

Today a total of 30 customers visited our deli.

See output.txt for more details.

End of program.

output.txt

Accumulated total number of customers:

180

Total number of customers for today:

30

Program ended at:

Sat Apr 27 15:55:44 2019

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

2 customers came in and occupied table R1C2

4 customers came in and occupied table R1C0

8 customers came in and occupied table R0C4

8 customers came in and occupied table R0C2

8 customers came in and occupied table R0C0