

## 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 4 (summer setting, occupied tables if tables of the most suitable size cannot be provided 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)
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Please select (1 to 6): 3

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Current layout:

8-8 4-4 X-X 4-4 8-8

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

8-8 4-4 X-X 4-4 8-8

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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): 4

4 customers are assigned to table ROC1

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Current layout:

8-8 4-0 X-X 4-4 8-8

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

8-8 4-4 X-X 4-4 8-8

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Input the corresponding number

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- 1: Occupy a table
- 2: Release a table
3. Check tables occupied for too long
4. Show current availability of seats
5. End program

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Your input: 1

Number of customer (1-8): 4

4 customers are assigned to table R0C3

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Current layout:

8-8 4-0 X-X 4-0 8-8

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

8-8 4-4 X-X 4-4 8-8

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Input the corresponding number

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- 1: Occupy a table
- 2: Release a table
3. Check tables occupied for too long
4. Show current availability of seats
5. End program

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Your input: 1

Number of customer (1-8): 4

4 customers are assigned to table R2C1

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Current layout:

8-8 4-0 X-X 4-0 8-8

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

8-8 4-0 X-X 4-4 8-8

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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): 4

4 customers are assigned to table R2C3

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Current layout:

8-8 4-0 X-X 4-0 8-8

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

8-8 4-0 X-X 4-0 8-8

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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): 4

4 customers are assigned to table R0C0

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Current layout:

8-4 4-0 X-X 4-0 8-8

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

8-8 4-0 X-X 4-0 8-8

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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

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Your input: 3

4 customers occupied table R0C0 for too long.

4 customers occupied table R2C3 for too long.

4 customers occupied table R2C1 for too long.

4 customers occupied table R0C3 for too long.

4 customers occupied table R0C1 for too long.

Would you like those customers to leave?

Your choice(Y/N): Y

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Current layout:

8-8 4-4 X-X 4-4 8-8

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

8-8 4-4 X-X 4-4 8-8

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Input the corresponding number

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1: Occupy a table

2: Release a table

3. Check tables occupied for too long

4. Show current availability of seats

5. End program

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Your input: 5

Today a total of 20 customers visited our deli.

See output.txt for more details.

End of program.

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*output.txt*

Accumulated total number of customers:

170

Total number of customers for today:

20

Program ended at:

Sat Apr 27 16:33:41 2019

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

4 customers came in and occupied table R0C0  
4 customers came in and occupied table R2C3  
4 customers came in and occupied table R2C1  
4 customers came in and occupied table R0C3  
4 customers came in and occupied table R0C1