1340 Course Project-Table Management System

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

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    (fewer tables)
6: Custom setting    (input your own layout)
-----------------------------------------------------
Please select (1 to 6): 3
--------------------
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
--------------------
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 R0C1
--------------------
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

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 R0C3

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

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 R2C1

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

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

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

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

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

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
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

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

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 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