1340 Course Project-Table Management System

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

Sample test case 5(winter setting, blocking people when the numbers of customers in the deli exceeded the maximum capacity 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): 5
--------------------
Current layout:
X-X X-X X-X X-X X-X
4-4 8-8 8-8 8-8 4-4
X-X X-X X-X X-X 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 R1C1
--------------------
Current layout:
```

X-X X-X X-X X-X X-X
4-4 8-0 8-8 8-8 4-4
X-X X-X X-X X-X 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 R1C2

Current layout:
X-X X-X X-X X-X X-X
4-4 8-0 8-0 8-8 4-4
X-X X-X X-X X-X 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 R1C3

Current layout:
X-X X-X X-X X-X X-X
4-4 8-0 8-0 8-0 4-4
X-X X-X X-X X-X 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 R1C0

4 customers are assigned to table R1C4

Current layout:

X-X X-X X-X X-X X-X

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

X-X X-X X-X X-X 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): 1

Sorry, we don't have enough seat now, please wait for a while

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Current layout:

X-X X-X X-X X-X X-X

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

X-X X-X X-X X-X 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
4 customers occupied table R1C4 for too long.
4 customers occupied table R1C0 for too long.
8 customers occupied table R1C3 for too long.
8 customers occupied table R1C2 for too long.
8 customers occupied table R1C1 for too long.
Would you like those customers to leave?
Your choice(Y/N): Y

Current layout:
X-X X-X X-X X-X X-X
4-4 8-8 8-8 8-8 4-4
X-X X-X X-X X-X 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.

Accumulated total number of customers:
182
Total number of customers for today:
32
Program ended at:
Sat Apr 27 16:42:12 2019

Full record of today's customers (in descending order)
4 customers came in and occupied table R1C4
4 customers came in and occupied table R1C0
8 customers came in and occupied table R1C3
8 customers came in and occupied table R1C2
8 customers came in and occupied table R1C1