1340 Course Project-Table Management System

Contributors:

Wong Ka Ngai (UID 3035568881)

Wan Tsun Wai (UID 3035569017)

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    (fewer 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.

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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