EGCI 213

Group Project 1 – Hotel Booking Simulation

The project can be done in a group of <= 4 students. Each group must do the project by themselves. **Everyone** involved in cheating will get **ZERO** point

- 1. Implement class Room and class Meal that represents an individual hotel item read from hotel.txt. Each line of the input file consists of
 - Column 0 = item type (R = room, M = meal)
 - Column 1 = item name
 - Column 2 = rate
 - Room rate = price per room (or per bed) without service charge and VAT
 - Meal rate = price per head including service charge and VAT

Your class should have variables to keep total sales in cash and total sales in units.

Don't hard code item information. I may change item names and rates to check whether your calculation is correct. But there are always 5 items in this file, with 1 meal item being the last item.

- 2. Implement class Customer that represents an individual customer. Customer name is read from <u>bookings.txt</u> in (3). Your class should have a variable to keep cashback calculated from booking
- 3. Implement class Booking that represents an individual booking read from bookings.txt. Each line of the input file consists of
 - Column 0 = booking ID
 - Column 1 = customer name
 - Column 2 = nights
 - Last 5 columns = units of items 1-5 (corresponding to items in hotel.txt)

```
7
    Annie,
               2,
                        1,
                            1,
                                 1,
2,
    Betty,
               5,
                   2,
                        2,
                            0,
                                 0,
                                     6
3,
    Cathy,
               3,
                   0,
                       5,
                            0, 20, 30
4,
    Annie,
             10,
                   0,
                       0,
                            5,
                                 0, 14
              4,
    David,
                   1,
                       5,
                            1,
                               10, 20
              5,
                       5,
6,
    Ellen,
                   5,
                                 0, 18
                            1,
    David,
              10,
                                 0, 15
                   3,
```

R, Single Room,

R, Triple Room,

R, Single Dorm Bed,

R, Twin Room,

M, Breakfast,

1300

1800

2400

600

250

Lines that contain identical names are bookings by the same customers. For example, in order #1, Annie books {1 single room, 1 twin room, 1 triple room, 1 single dorm bed, 7 heads of breakfast} for 2 nights. Orders #1 and #4 are from the same person (Annie).

Don't hard code booking information. I may change customer names, nights, or number of items to check whether your calculation is correct. I may also add/remove some lines (number of bookings is not fixed).

Your class must have method **process** to process each booking as follows:

- 3.1 Calculate total room price for all nights. The price must include service charge and VAT
 - Service charge = 10% of room rate
 - VAT = 7% of room rate including service charge
- 3.2 Calculate total meal price for all nights
- 3.3 Calculate total bill = total room price + total meal price

- 3.4 Check customer's cashback
 - If this is the customer's first booking, add him/her to customer list. Set cashback = 0
 - If this customer already exists, get available cashback. Cashback redemption is limited to 50% of total bill in (3.3); redemption <1 full baht is excluded. For example, if total bill = 3,560.20 → max redemption = 1,780 baht
- 3.5 Calculate final bill = total bill cashback redemption
- 3.6 Update customer's cashback for the next booking
 - After redemption in (3.4)
 - Add cashback earned by the current booking = 0.05 * total room price in (3.1). Cashback <1 full baht is excluded. For example, if total room price = 14,359.40 → cashback = 717 baht (for next booking, not the current booking)
- 3.7 Design your own output format, but it must show at least: booking information read from input file, total room price (3.1), total meal price (3.2), final bill (3.5), and cashback (3.6)
- 4. Implement main class with main method
 - 4.1 Read data from input files
 - 4.2 Process each booking
 - 4.3 Report all rooms and their total sales in units and in cash, sorted in decreasing order of sales in units
 - 4.4 Report total sales in units and in cash of meal
- 5. The program must be able to handle the following errors/exceptions
 - 5.1 Missing files if hotel.txt or bookings.txt is missing
 - 5.2 bookings.txt may contain input errors as in bookings_errors.txt, but no input error hotel.txt
 - Missing values, e.g. only 4 items instead of 5 items in a line
 - Format errors, e.g. "O (oh)" instead of "O (zero)"
 - Invalid numbers, e.g. negative value for nights or units

You may handle these errors by:

- Skipping the whole line. Skipped bookings must not be added to room and meal sales.
- Replacing them with some default values e.g. 0
- All exception handling must be reported, so I can check whether your calculation is correct.
- 5.3 Handling the above errors/exceptions means your program must be able to continue and give correct output. Printing messages and ending the program doesn't count as proper exception handling.
- 6. Package and folder structure must be correct
 - 6.1 Your source files (.java) must be in folder Project1_XXX where XXX = ID of the group representative, assuming that this folder is under Maven's "src/main/java" structure. The first lines of all source files must be comments containing names & IDs of all members.
 - 6.2 Input files must be read from Project1_XXX. Don't use absolute path that is valid only on your PC.
 - 6.3 Add readme.txt containing names & IDs of all members in Project1_XXX.

Submission

- 1. Group representative zips and submits Project1_XXX to Google classroom
- 2. Other members submit only readme.txt to Google classroom

Grading

4 points requirements + correct results (total room price, total meal price, final bill, cashback)

1.5 points correct summary report (sorted room sales, meal sales)1.5 points proper exception handling (missing files, input errors)

3 points proper design & programming in OOP style

```
exec-maven-plugin:3.0.0:exec (default-cli) @ solutions --
Read hotel data from file src/main/java/Project1/hotel.txt
                                                                                                                       Demo 1
                                                                Single Room
                                                                                                                      No error
                    rate = 1,300.00
                                     rate++ = 1,530.10
Twin Room
                    rate = 1,800.00
                                         rate++ = 2,118.60
                                                                • Service charge = 1300 * 0.1 = 130
                                      rate++ = 2,824.80
                    rate = 2,400.00
Triple Room
                                                               • VAT = (1300 + 130) * 0.07 = 100.10
                   rate = 600.00 rate++ = 706.20
rate = 250.00 rate++ = 250.00
Single Dorm Bed
                                                                • Rate++ = 1430 + 100.10 = 1530.10
Read booking data from file src/main/java/Project1/bookings.txt
==== Booking Processing =====
Booking 1, Annie, 2 nights >> Single Room ( 1) Twin Room ( 1)

Available cashback = 0 >> Total room price++ = 14,359.40
                                                                      Triple Room ( 1) Single Dorm Bed ( 1) Breakfast ( 7)
                                                                      with service charge and VAT
                                                                      redeem = 0 Cashback = 14359.40 * 0.05 = 717.95 = 717
                            >> Total meal price =
                                                       3,500.00
                             >> Total bill
                                                   = 17,859.40
                                                   = 17,859.40
                             >> Final bill
                                                                      cashback for next booking = 717
Booking 2, Betty, 5 nights >> Single Room ( 2) Twin Room ( 2)

Available cashback = 0 >> Total room price++ = 36,487.00
                                                                      Triple Room ( 0) Single Dorm Bed ( 0) Breakfast ( 6)
Available cashback = 0
                                                                      with service charge and VAT
                             >> Total meal price =
                                                         7,500.00
                             >> Total bill
                                                       43,987.00
                                                                      redeem = 0
                                                  = 43,987.00
                             >> Final bill
                                                                      cashback for next booking = 1,824
Booking 3, Cathy, 3 nights >> Single Room ( 0) Twin Room ( 5)
                                                                      Triple Room ( 0) Single Dorm Bed ( 20)
                                                                                                                Breakfast ( 30)
                            >> Total room price++ = 74,151.00
>> Total meal price = 22,500.00
Available cashback = 0
                                                                      with service charge and VAT
                             >> Total bill
                                                       96,651.00
                                                                      redeem = 0
                                                   = 96,651.00
                             >> Final bill
                                                                      cashback for next booking = 3,707
Booking 4, Annie, 10 nights >> Single Room ( 0) Twin Room ( 0)
                                                                     Triple Room ( 5) Single Dorm Bed ( 0) Breakfast ( 14)
Available cashback = 717
                             >> Total room price++ = 141,240.00
                                                                      with service charge and VAT
                             >> Total meal price = 35,000.00
                                                   = 176,240.00
                             >> Total bill
                                                                      redeem = 717
                                                  = 175,523.00
                             >> Final bill
                                                                      cashback for next booking = 7.062
Booking 5, David, 4 nights >> Single Room ( 1) Twin Room ( 5)
                                                                      Triple Room ( 1) Single Dorm Bed ( 10) Breakfast ( 20)
                            >> Total room price++ = 88,039.60
>> Total meal price = 20,000.00
Available cashback = 0
                                                                      with service charge and VAT
                             >> Total bill
                                                   = 108,039.60
                                                                      redeem = 0
                             >> Final bill
                                                   = 108,039,60
                                                                      cashback for next booking = 4,401
Booking 6, Ellen, 5 nights >> Single Room ( 5) Twin Room ( 5)
                                                                      Triple Room ( 1) Single Dorm Bed ( 0) Breakfast ( 18)
Available cashback = 0
                             >> Total room price++ = 105,341.50
                                                                      with service charge and VAT
                             >> Total meal price
                                                   = 22,500.00
                             >> Total bill
                                                   = 127,841.50
                                                                      redeem = 0
                                                   = 127,841.50
                             >> Final bill
                                                                      cashback for next booking = 5,267
Booking 7, David, 10 nights >> Single Room ( 3)
                                                  Twin Room ( 6)
                                                                      Triple Room ( 0) Single Dorm Bed ( 0)
                                                                                                                Breakfast ( 15)
Available cashback = 4,401
                             >> Total room price++ = 173,019.00
                                                                      with service charge and VAT
                            >> Total meal price
                                                   = 37.500.00
                             >> Total bill
                                                   = 210,519.00
                                                                      redeem = 4,401
                             >> Final bill
                                                   = 206,118.00
                                                                      cashback for next booking = 8,650
Booking 8, Annie, 4 nights >> Single Room ( 0) Twin Room ( 1)
                                                                      Triple Room ( 5) Single Dorm Bed ( 15) Breakfast ( 31)
Available cashback = 7,062
                             >> Total room price++ = 107,342.40
                                                                      with service charge and VAT
                             >> Total meal price = 31,000.00
                             >> Total bill
                                                   = 138,342.40
                                                                      redeem = 7,062
                             >> Final bill
                                                   = 131,280.40
                                                                      cashback for next booking = 5,367
```

```
Twin Room ( 4)
Booking 9, Cathy, 3 nights >> Single Room ( 0)
                                                                       Triple Room ( 4) Single Dorm Bed ( 0) Breakfast ( 20)
Available cashback = 3,707
                             >> Total room price++ = 59,320.80
                                                                       with service charge and VAT
                             >> Total meal price = 15,000.00
                             >> Total bill
                                                        74,320.80
                                                                       redeem = 3,707
                             >> Final bill
                                                   = 70,613.80
                                                                       cashback for next booking = 2,966
Booking 10, Frodo, 6 nights >> Single Room ( 2) Twin Room ( 3) Triple Room ( 0) Single Dorm Bed ( 4) Breakfast ( 12)
Available cashback = 0
                             >> Total room price++ = 73,444.80
                                                                       with service charge and VAT
                             >> Total meal price = 18,000.00
                             >> Total bill
                                                        91,444.80
                                                   = 91,444.80
                             >> Final bill
                                                                      cashback for next booking = 3,672
Booking 11, Ellen, 1 nights >> Single Room ( 2) Twin Room ( 0) Triple Room ( 0) Single Dorm Bed ( 0) Breakfast ( 2)
Available cashback = 5,267
                             >> Total room price++ =
                                                       3,060.20
                                                                       with service charge and VAT
                             >> Total meal price =
                                                           500.00
                                                                       redeem = 1,780 Cashback = 5267 - 1780 + 153 = 3640
                             >> Total bill
                                                         3,560.20
                                                   = 1,780.20
                             >> Final bill
                                                                       cashback for next booking = 3,640
Booking 12, Ginny, 3 nights >> Single Room ( 2) Twin Room ( 10)

Available cashback = 0 >> Total room price++ = 89,687.40

>> Total meal price = 21,000.00
                                                                      Triple Room ( 2) Single Dorm Bed ( 0) Breakfast ( 28)
                                                                       with service charge and VAT
                             >> Total bill
                                                    = 110,687.40
                                                                       redeem = 0
                                                   = 110,687.40
                             >> Final bill
                                                                       cashback for next booking = 4,484
==== Room Summary =====
                                               415,245.60 Baht
131,353.20 Baht
                total sales = 196 rooms
total sales = 186 rooms
Twin Room
Single Dorm Bed
                                                                      Total = Sum(Total room price++) from all bookings
Triple Room total sales = Single Room total sales =
                                                 279,655.20 Baht
139,239.10 Baht
                                   99 rooms
                                 91 rooms
==== Meal Summary =====
                  total sales = 936 heads
                                                234,000.00 Baht = Sum(Total meal price) from all bookings
Breakfast
```

```
--- exec-maven-plugin:3.0.0:exec (default-cli) @ solutions -
java.io.FileNotFoundException: src\main\java\Project/\hotels.txt
                                                               The system cannot find the file specified)
Enter file name for hotel data =
                                                                 Missing file → keep asking for a new file name
hotel
java.io.FileNotFoundException: src\main\java\Project\\hotel (The system cannot find the file specified)
Enter file name for hotel data =
hotel.txt
Read hotel data from file src/main/java/Project1/hotel.txt
                                                                                                            Demo 2
                     rate = 1,300.00
                                          rate++ = 1,530.10
Single Room
                     rate = 1,800.00
                                          rate++ = 2,118.60
Twin Room
                                                                                             Skip lines with errors
                   rate = 2,400.00
                                         rate++ = 2,824.80
Triple Room
                    rate =
                             600.00
Single Dorm Bed
                                          rate++ =
                                                      706.20
                             250.00
Breakfast
                     rate =
                                          ratett =
                                                      250.00
java.io.FileNotFoundException: src\main\java\Projectl\bookings error.txt (The system cannot find the file specified)
Enter file name for booking data =
bookings errors
java.io.FileNotFoundException: src\main\java\Project\bookings_errors (The system cannot find the file specified)
Enter file name for booking data =
bookings errors.txt
Read booking data from file src/main/java/Project1/bookings_errors.txt
java.lang.NumberFormatException: For input string: "S"
                                                                  Input errors > skip whole line
[1, Annie, S, 1, 1, 1, 1, 7] --> skip this booking
java.lang.ArrayIndexOutOfBoundsException: Index 7 out of bounds for length 7
[2, Betty, 5, 2, 2, 0,
                                6 ] --> skip this booking
Project1.InvalidInputException: For input: -3
[3, Cathy, -3, 0, 5, X, 20, 30] --> skip this booking
Project1.InvalidInputException: For input: -4
[9, Cathy, 3, 0, 4, -4, 0, 20] \longrightarrow skip this booking
java.lang.NumberFormatException: For input string: "2.8"
[12, Ginny, 3, 2, 10, 2, 0, 2.8] --> skip this booking
```

```
==== Booking Processing =====
Booking 4, Annie, 10 nights >> Single Room ( 0) Twin Room ( 0)
                                                                    Triple Room ( 5) Single Dorm Bed ( 0) Breakfast ( 14)
                            >> Total room price++ = 141,240.00
Available cashback = 0
                                                                    with service charge and VAT
                            >> Total meal price
                                                  = 35,000.00
                            >> Total bill
                                                  = 176,240.00
                                                                     redeem = 0
                             >> Final bill
                                                   = 176,240.00
                                                                     cashback for next booking = 7,062
                  O nights doesn't lead to program crash or wrong calculation. You may treat it as valid input
Booking 5, David, 0 nights >> Single Room ( 1)
                            >> Single Room ( 1) Twin Room ( 5)
>> Total room price++ = 0.00
                                                                     Triple Room ( 1)
                                                                                       Single Dorm Bed ( 10)
                                                                                                               Breakfast ( 20)
Available cashback = 0
                                                                     with service charge and VAT
                            >> Total meal price
                                                           0.00
                             >> Total bill
                                                          0.00
                                                                     redeem = 0
                                                  =
                             >> Final bill
                                                           0.00
                                                                     cashback for next booking = 0
                            >> Single Room ( 5) Twin Room ( 5) 
>> Total room price++ = 105,341.50
Booking 6, Ellen, 5 nights >> Single Room ( 5)
                                                                     Triple Room ( 1) Single Dorm Bed ( 0) Breakfast ( 18)
Available cashback = 0
                                                                     with service charge and VAT
                            >> Total meal price = 22,500.00
                            >> Total bill
                                                  = 127,841.50
                                                                     redeem = 0
                             >> Final bill
                                                  = 127,841.50
                                                                    cashback for next booking = 5,267
                            >> Single Room ( 3) Twin Room ( 6) 
>> Total room price++ = 173,019.00
Booking 7, David, 10 nights >> Single Room ( 3)
                                                                    Triple Room ( 0) Single Dorm Bed ( 0)
                                                                                                              Breakfast ( 15)
Available cashback = 0
                                                                     with service charge and VAT
                            >> Total meal price
                                                   = 37,500.00
                             >> Total bill
                                                  = 210,519.00
                                                                    redeem = 0
                             >> Final bill
                                                  = 210,519.00
                                                                    cashback for next booking = 8,650
                                                 Twin Room ( 1)
                                                                    Triple Room ( 5) Single Dorm Bed ( 15)
Booking 8, Annie, 4 nights >> Single Room ( 0)
                                                                                                              Breakfast ( 31)
                            >> Total room price++ = 107,342.40
Available cashback = 7,062
                                                                    with service charge and VAT
                            >> Total meal price = 31,000.00
                                                   = 138,342.40
                            >> Total bill
                                                                    redeem = 7.062
                             >> Final bill
                                                  = 131,280.40
                                                                    cashback for next booking = 5,367
Booking 10, Frodo, 6 nights >> Single Room ( 2)
                                                 Twin Room ( 3)
                                                                     Triple Room ( 0)
                                                                                      Single Dorm Bed ( 4)
                                                                                                              Breakfast ( 12)
                            >> Total room price++ = 73,444.80
>> Total meal price = 18,000.00
                                                                     with service charge and VAT
Available cashback = 0
                             >> Total bill
                                                  = 91,444.80
                                                                    redeem = 0
                            >> Final bill
                                                  = 91,444.80
                                                                    cashback for next booking = 3,672
                            >> Single Room ( 2) Twin Room ( 0)
>> Total room price++ = 3,060.20
Booking 11, Ellen, 1 nights >> Single Room ( 2)
                                                                    Triple Room ( 0) Single Dorm Bed ( 0)
                                                                                                              Breakfast ( 2)
Available cashback = 5,267
                                                                    with service charge and VAT
                            >> Total meal price =
                                                         500.00
                            >> Total bill
                                                      3,560,20
                                                                     redeem = 1.780
                            >> Final bill
                                                       1.780.20
                                                                    cashback for next booking = 3,640
==== Room Summary =====
                                               226,690.20 Baht
Twin Room
                total sales = 107 rooms
                 total sales =
                                                                     Total = Sum(Total room price++) from all
                                                 59,320.80 Baht
Single Dorm Bed
                                 84 rooms
                                75 rooms
Triple Room
                                              211,860.00 Baht
                 total sales =
                                                                     unskipped bookings
                                               105,576.90 Baht
Single Room
                total sales =
                                 69 rooms
==== Meal Summary =====
                                                144,500.00 Baht = Sum(Total meal price) from all unskipped bookings
                  total sales = 578 heads
Breakfast
______
```

```
--- exec-maven-plugin:3.0.0:exec (default-cli) @ solutions ---
                                                                                                           Demo 3
  Read hotel data from file src/main/java/Projectl/hotel.txt
                                                                                             Use default value (0)
                      rate = 1,300.00
                                         rate++ = 1,530.10
  Single Room
  Twin Room
                     rate = 1,800.00
                                         rate++ = 2,118.60
   Triple Room
                      rate = 2,400.00
                                          rate++ = 2.824.80
                      rate = 600.00
                                          rate++ = 706.20
  Single Dorm Bed
                      rate = 250.00
                                         rate++ = 250.00
   Read booking data from file src/main/java/Projectl/bookings_errors.txt
   java.lang.NumberFormatException: For input string: "S"
  Original [1, Annie, S, 1, 1, 1, 1, 7] --> Correction [1, Annie, (0, 1, 1, 1, 1, 7]
   Projectl.MissingInputException: 1 columns missing
  Original [2, Betty, 5, 2, 2, 0, 6] --> Correction [2, Betty, 5, 2, 2, 0, 6, 0])
   Projectl.InvalidInputException: For input: -3
  java.lang.NumberFormatException: For input string: "X"
  Original [3, Cathy, -3, 0, 5, X, 20, 30] --> Correction [3, Cathy, (0, 0, 0, 5, (0, 20, 30)]
  Projectl.InvalidInputException: For input: -4
  java.lang.NumberFormatException: For input string: "20"
   Original [9, Cathy, 3, 0, 4, -4, 0, 20] --> Correction [9, Cathy, 3, 0, 4, (0, 0, 0)]
   java.lang.NumberFormatException: For input string: "2.8"
  Original [12, Ginny, 3, 2, 10, 2, 0, 2.8] --> Correction [12, Ginny, 3, 2, 10, 2, 0]
```

	_			
Booking 1, Annie, nights Available cashback = 0	>> Single Room (1) >> Total room price++		Triple Room (1) Single Dorm Bed (1) with service charge and VAT	Breakfast (7)
	<pre>>> Total meal price >> Total bill</pre>	= 0.00 = 0.00	redeem = 0	
	>> Final bill	= 0.00	cashback for next booking = 0	
				- 12 1 1 2
Booking 2, Betty, 5 nights Available cashback = 0	>> Single Room (2) >> Total room price++	Twin Room (2) = 57,673.00	Triple Room (0) Single Dorm Bed (6) with service charge and VAT	Breakfast (0)
	>> Total meal price	= 0.00	,	
	>> Total bill	= 57,673.00	redeem = 0	
	>> Final bill	= 57,673.00	cashback for next booking = 2,883	
Booking 3, Cathy, 0 nights	>> Single Room (0)	Twin Room (5)	Triple Room (0) Single Dorm Bed (20)	Breakfast (30)
Available cashback = 0	>> Total room price++		with service charge and VAT	
	<pre>>> Total meal price >> Total bill</pre>	= 0.00 = 0.00	redeem = 0	
	>> Final bill	= 0.00	cashback for next booking = 0	
Booking 4, Annie, 10 nights Available cashback = 0	>> Single Room (0) >> Total room price++	Twin Room (0)	Triple Room (5) Single Dorm Bed (0) with service charge and VAT	Breakfast (14)
Available Cashback - 0	>> Total meal price	= 35,000.00	with service charge and var	
	>> Total bill	= 176,240.00	redeem = 0	
	>> Final bill	= 176,240.00	cashback for next booking = 7,062	
Booking 5, David, 0 nights	>> Single Room (1)	Twin Room (5)	Triple Room (1) Single Dorm Bed (10)	Breakfast (20)
Available cashback = 0	>> Total room price++		with service charge and VAT	·/
	>> Total meal price	= 0.00		
	>> Total bill >> Final bill	= 0.00	redeem = 0 cashback for next booking = 0	
 	>> IIIIai biii	- 0.00	cashback for heat booking - 0	
Booking 6, Ellen, 5 nights	>> Single Room (5)	Twin Room (5)	Triple Room (1) Single Dorm Bed (0)	Breakfast (18)
Available cashback = 0	>> Total room price++ >> Total meal price	= 105,341.50 = 22,500.00	with service charge and VAT	
	>> Total meal price >> Total bill	= 127,841.50	redeem = 0	
	>> Final bill	= 127,841.50	cashback for next booking = 5,267	
Parking 7 Parking 10 minks	>> gi1- p / 2)	main page (6)	mainle page (0) gianle page pad (0)	D
Booking 7, David, 10 nights Available cashback = 0	>> Single Room (3) >> Total room price++	Twin Room (6) = 173,019.00	Triple Room (0) Single Dorm Bed (0) with service charge and VAT	Breakfast (15)
	>> Total meal price	= 37,500.00	•	
	>> Total bill	= 210,519.00	redeem = 0	
	>> Final bill	= 210,519.00	cashback for next booking = 8,650	
Booking 8, Annie, 4 nights	>> Single Room (0)	Twin Room (1)	Triple Room (5) Single Dorm Bed (15)	Breakfast (31)
Available cashback = 7,062	>> Total room price++		with service charge and VAT	
	>> Total meal price >> Total bill	= 31,000.00 = 138,342.40	redeem = 7,062	
	>> Final bill	= 131,280.40	cashback for next booking = 5,367	
Booking 9, Cathy, 3 nights Available cashback = 0	>> Single Room (0) >> Total room price++	Twin Room (4) = 25,423.20	Triple Room ((0)) Single Dorm Bed (0) with service charge and VAT	Breakfast ((0))
Available cashback o	>> Total meal price	= 0.00	with betvies charge and var	
	>> Total bill	= 25,423.20	redeem = 0	
	>> Final bill	= 25,423.20	cashback for next booking = 1,271	
Booking 10, Frodo, 6 nights	>> Single Room (2)	Twin Room (3)	Triple Room (0) Single Dorm Bed (4)	Breakfast (12)
Available cashback = 0	>> Total room price++	= 73,444.80	with service charge and VAT	
	<pre>>> Total meal price >> Total bill</pre>	= 18,000.00 = 91,444.80	redeem = 0	
	>> Total bill >> Final bill	= 91,444.80	cashback for next booking = 3,672	
<u> </u>			•	
Booking 11, Ellen, 1 nights Available cashback = 5,267	>> Single Room (2)	Twin Room (0) = 3,060.20	Triple Room (0) Single Dorm Bed (0) with service charge and VAT	Breakfast (2)
Available Cashback = 5,26/	>> Total room price++ >> Total meal price	= 3,060.20	with service charge and VAT	
	>> Total bill	= 3,560.20	redeem = 1,780	
	>> Final bill	= 1,780.20	cashback for next booking = 3,640	
Booking 12, Ginny, 3 nights	>> Single Room (2)	Twin Room (10)	Triple Room (2) Single Dorm Bed (0)	Breakfast ((0))
Available cashback = 0	>> Total room price++	= 89,687.40	with service charge and VAT	
	>> Total meal price >> Total bill	= 0.00 = 89,687.40	rodoom = 0	
	>> Total bill >> Final bill	= 89,687.40 = 89,687.40	redeem = 0 cashback for next booking = 4,484	
Twin Room Summary ===== Twin Room total sale	es = 159 rooms	336,857.40 Baht		
	es = 114 rooms	80,506.80 Baht		
Single Room total sale	es = 85 rooms	130,058.50 Baht		
Triple Room total sale	es = 81 rooms	228,808.80 Baht		
===== Meal Summary =====				
_	es = 578 heads	144,500.00 Baht		