Design an Object Oriented Zuo Zhe Zuo Sushi Wo Shou Si Reservation System

(坐著做。壽司本館)

Grading rule

Output correct:

7 points `MakeReservation::inputDate`

7 points `MakeReservation::inputTimeCode`

9 points `AvailSeatsDatabase::SeatsDatabase`

7 points `AvailSeatsDatabase:: decreaseAvailSeats`

7 points `AvailSeatsDatabase:: availableTimes( Date date, int requiredSeats )`

7 points `AvailSeatsDatabase:: availableTimes( Date date, int timeCode, int requiredSeats )`

7 points `AvailSeatsDatabase:: searchAvailSeats`

7 points `AvailSeatsDatabase::load AvailSeats`
points `ReservationDatabase::loadReservations`

7 points `AvailSeatsDatabase:: storeAvailSeats`
points `ReservationDatabase:: storeReservations`

7 points `ReservationDatabase::exist`

7 points `ReservationDatabase::displayReservationInfo`

7 points `Reservation::displayReservationInfo`

7 points `Date::operator-`

7 points `Date::operator+`

Output incorrect:

6 points `MakeReservation::inputDate`

6 points `MakeReservation::inputTimeCode`

8 points `AvailSeatsDatabase::SeatsDatabase`

6 points `AvailSeatsDatabase:: decreaseAvailSeats`

6 points `AvailSeatsDatabase:: availableTimes( Date date, int requiredSeats )`

6 points AvailSeatsDatabase:: availableTimes(Date date, int timeCode,
                                              int requiredSeats)

6 points AvailSeatsDatabase:: searchAvailSeats

6 points AvailSeatsDatabase::load AvailSeats
  points ReservationDatabase::loadReservations

6 points AvailSeatsDatabase:: storeAvailSeats
  points ReservationDatabase:: storeReservations

6 points ReservationDatabase::exist

6 points ReservationDatabase::displayReservationInfo

6 points Reservation::displayReservationInfo

6 points Date::operator-

6 points Date::operator+

Sample screen dialog #1

```
Welcome to Zuo Zhe Zuo Sushi Wo Shou Si

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 0
? 4
? 2

Enter phone Number: 99

No reservations!

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 1

Enter the party size (1~6): ? 0
? 7
? 6

Choose a date
 1. 2020/06/22   2. 2020/06/23   3. 2020/06/24   4. 2020/06/25
 5. 2020/06/26   6. 2020/06/27   7. 2020/06/28   8. 2020/06/29
 9. 2020/06/30  10. 2020/07/01  11. 2020/07/02  12. 2020/07/03
13. 2020/07/04  14. 2020/07/05  15. 2020/07/06  16. 2020/07/07
17. 2020/07/08  18. 2020/07/09  19. 2020/07/10  20. 2020/07/11
```

```
21. 2020/07/12  22. 2020/07/13  23. 2020/07/14  24. 2020/07/15
25. 2020/07/16  26. 2020/07/17  27. 2020/07/18  28. 2020/07/19
29. 2020/07/20  30. 2020/07/21
? 0
? 31
? 9

Choose a time:
1. 11:30
2. 13:30
3. 17:45
4. 19:45
? 0
? 5
? 1

Enter name: 99

Enter phone Number: 99

Choose a menu:
1. NT$ 1080
2. NT$ 1680
3. NT$ 2280
? 0
? 4
? 1

6 guests  2020/06/30  11:30

Reservation Completed

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 2

Enter phone Number: 99

1. 6 guests  2020/06/30  11:30

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 3
Thank you. Goodbye.

請按任意鍵繼續 . . .
```

Sample screen dialog #2

```
Welcome to Zuo Zhe Zuo Sushi Wo Shou Si

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 2

Enter phone Number: 99

 1. 6 guests   2020/06/30   11:30
 2. 6 guests   2020/06/30   11:30
 3. 6 guests   2020/06/30   11:30
 4. 6 guests   2020/06/30   13:30
 5. 6 guests   2020/06/30   13:30
 6. 6 guests   2020/06/30   17:45
 7. 6 guests   2020/06/30   17:45
 8. 6 guests   2020/06/30   17:45

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 1

Enter the party size (1~6): ? 6

Choose a date             displayed in  MakeReservation::inputDate
 1. 2020/06/22    2. 2020/06/23    3. 2020/06/24    4. 2020/06/25
 5. 2020/06/26    6. 2020/06/27    7. 2020/06/28    8. 2020/06/29
 9. 2020/06/30   10. 2020/07/01   11. 2020/07/02   12. 2020/07/03
13. 2020/07/04   14. 2020/07/05   15. 2020/07/06   16. 2020/07/07
17. 2020/07/08   18. 2020/07/09   19. 2020/07/10   20. 2020/07/11
21. 2020/07/12   22. 2020/07/13   23. 2020/07/14   24. 2020/07/15
25. 2020/07/16   26. 2020/07/17   27. 2020/07/18   28. 2020/07/19
29. 2020/07/20   30. 2020/07/21
? 9

Choose a time: displayed in  MakeReservation::inputTimeCode
2. 13:30
4. 19:45
? 1
? 3
? 2

Enter name: 99

Enter phone Number: 99

Choose a menu:
```

```
1. NT$ 1080
2. NT$ 1680
3. NT$ 2280
? 1

6 guests  2020/06/30  13:30

Reservation Completed

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 1

Enter the party size (1~6): ? 6

Choose a date
 1. 2020/06/22   2. 2020/06/23   3. 2020/06/24   4. 2020/06/25
 5. 2020/06/26   6. 2020/06/27   7. 2020/06/28   8. 2020/06/29
 9. 2020/06/30  10. 2020/07/01  11. 2020/07/02  12. 2020/07/03
13. 2020/07/04  14. 2020/07/05  15. 2020/07/06  16. 2020/07/07
17. 2020/07/08  18. 2020/07/09  19. 2020/07/10  20. 2020/07/11
21. 2020/07/12  22. 2020/07/13  23. 2020/07/14  24. 2020/07/15
25. 2020/07/16  26. 2020/07/17  27. 2020/07/18  28. 2020/07/19
29. 2020/07/20  30. 2020/07/21
? 9

Choose a time:
4. 19:45
? 4

Enter name: 99

Enter phone Number: 99

Choose a menu:
1. NT$ 1080
2. NT$ 1680
3. NT$ 2280
? 1

6 guests  2020/06/30  19:45

Reservation Completed

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 1
```

```
Enter the party size (1~6): ? 6

Choose a date
 1. 2020/06/22   2. 2020/06/23   3. 2020/06/24   4. 2020/06/25
 5. 2020/06/26   6. 2020/06/27   7. 2020/06/28   8. 2020/06/29
 9. 2020/06/30  10. 2020/07/01  11. 2020/07/02  12. 2020/07/03
13. 2020/07/04  14. 2020/07/05  15. 2020/07/06  16. 2020/07/07
17. 2020/07/08  18. 2020/07/09  19. 2020/07/10  20. 2020/07/11
21. 2020/07/12  22. 2020/07/13  23. 2020/07/14  24. 2020/07/15
25. 2020/07/16  26. 2020/07/17  27. 2020/07/18  28. 2020/07/19
29. 2020/07/20  30. 2020/07/21
? 9

Choose a time:
4. 19:45
? 4

Enter name: 99

Enter phone Number: 99

Choose a menu:
1. NT$ 1080
2. NT$ 1680
3. NT$ 2280
? 1

6 guests   2020/06/30   19:45

Reservation Completed

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 1

Enter the party size (1~6): ? 6

Choose a date
 1. 2020/06/22   2. 2020/06/23   3. 2020/06/24   4. 2020/06/25
 5. 2020/06/26   6. 2020/06/27   7. 2020/06/28   8. 2020/06/29
 9. 2020/06/30  10. 2020/07/01  11. 2020/07/02  12. 2020/07/03
13. 2020/07/04  14. 2020/07/05  15. 2020/07/06  16. 2020/07/07
17. 2020/07/08  18. 2020/07/09  19. 2020/07/10  20. 2020/07/11
21. 2020/07/12  22. 2020/07/13  23. 2020/07/14  24. 2020/07/15
25. 2020/07/16  26. 2020/07/17  27. 2020/07/18  28. 2020/07/19
29. 2020/07/20  30. 2020/07/21
? 9

Choose a time:
4. 19:45
```

```
? 4

Enter name: 99

Enter phone Number: 99

Choose a menu:
1. NT$ 1080
2. NT$ 1680
3. NT$ 2280
? 1

6 guests  2020/06/30  19:45

Reservation Completed

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 2

Enter phone Number: 99

 1. 6 guests  2020/06/30  11:30
 2. 6 guests  2020/06/30  11:30
 3. 6 guests  2020/06/30  11:30
 4. 6 guests  2020/06/30  13:30
 5. 6 guests  2020/06/30  13:30
 6. 6 guests  2020/06/30  17:45
 7. 6 guests  2020/06/30  17:45
 8. 6 guests  2020/06/30  17:45
 9. 6 guests  2020/06/30  13:30
10. 6 guests  2020/06/30  19:45
11. 6 guests  2020/06/30  19:45
12. 6 guests  2020/06/30  19:45

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 1

Enter the party size (1~6): ? 6

Choose a date
 1. 2020/06/22   2. 2020/06/23   3. 2020/06/24   4. 2020/06/25
 5. 2020/06/26   6. 2020/06/27   7. 2020/06/28   8. 2020/06/29
10. 2020/07/01  11. 2020/07/02  12. 2020/07/03  13. 2020/07/04
14. 2020/07/05  15. 2020/07/06  16. 2020/07/07  17. 2020/07/08
18. 2020/07/09  19. 2020/07/10  20. 2020/07/11  21. 2020/07/12
22. 2020/07/13  23. 2020/07/14  24. 2020/07/15  25. 2020/07/16
```

```
26. 2020/07/17  27. 2020/07/18  28. 2020/07/19  29. 2020/07/20
30. 2020/07/21
? 9
? 8


Choose a time:
1. 11:30
2. 13:30
3. 17:45
4. 19:45
? 1


Enter name: 99


Enter phone Number: 99


Choose a menu:
1. NT$ 1080
2. NT$ 1680
3. NT$ 2280
? 1


6 guests  2020/06/29  11:30


Reservation Completed

Enter Your Choice
1. Make Reservation
2. Reservation Enquiry
3. End Program
? 3
Thank you. Goodbye.


請按任意鍵繼續 . . .
```