Computer Programming II — Final Exam

2023/6/11

Design an Object Oriented Zuo Zhe Zuo Sushi Wo Shou Si Reservation System (坐著做 壽司本館)

**Functions:**

1. Make Reservation (訂位): Insert a new record into the binary file **Reservations.dat**. Moreover, the corresponding record of the binary file **AvailSeats.dat** is adjusted.
2. Reservation Enquiry (訂位紀錄查詢): Input a phone number, then display the reservation information of the guest.

**Requirements:**

1. Global variables are not allowed.

Grading rule

Output correct:

10 points MakeReservation::inputDate

8 points MakeReservation::inputTimeCode

14 points AvailSeatsDatabase::AvailSeatsDatabase

8 points AvailSeatsDatabase::availableTimes( Date date, int requiredSeats )

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

8 points AvailSeatsDatabase::searchAvailSeats

8 points AvailSeatsDatabase::load AvailSeats

points ReservationDatabase::loadReservations

8 points AvailSeatsDatabase::storeAvailSeats

points ReservationDatabase::storeReservations

8 points ReservationDatabase::exist

10 points Date::operator-

10 points Date::operator+

Output incorrect:

9 points MakeReservation::inputDate

7 points MakeReservation::inputTimeCode

13 points AvailSeatsDatabase::AvailSeatsDatabase

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

9 points Date::operator-

9 points Date::operator+

Test case 1

current date: 2023-06-11

AvailSeats - 2023-06-10.dat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2023-06-10 | 3 | 5 | 6 | 8 |
| 2023-06-11 | 0 | 15 | 16 | 13 |
| 2023-06-12 | 16 | 4 | 13 | 7 |
| 2023-06-13 | 10 | 18 | 2 | 0 |
| 2023-06-14 | 14 | 1 | 1 | 2 |
| 2023-06-15 | 14 | 13 | 17 | 6 |
| 2023-06-16 | 6 | 4 | 19 | 9 |
| 2023-06-17 | 17 | 15 | 6 | 15 |
| 2023-06-18 | 16 | 16 | 6 | 3 |
| 2023-06-19 | 3 | 9 | 5 | 0 |
| 2023-06-20 | 7 | 17 | 16 | 16 |
| 2023-06-21 | 11 | 8 | 11 | 6 |
| 2023-06-22 | 10 | 17 | 9 | 12 |
| 2023-06-23 | 12 | 4 | 20 | 20 |
| 2023-06-24 | 15 | 1 | 9 | 2 |
| 2023-06-25 | 18 | 6 | 1 | 19 |
| 2023-06-26 | 16 | 14 | 10 | 11 |
| 2023-06-27 | 16 | 7 | 5 | 12 |
| 2023-06-28 | 7 | 18 | 20 | 16 |
| 2023-06-29 | 7 | 0 | 8 | 20 |
| 2023-06-30 | 10 | 3 | 11 | 3 |
| 2023-07-01 | 10 | 6 | 10 | 20 |
| 2023-07-02 | 16 | 0 | 19 | 7 |
| 2023-07-03 | 3 | 4 | 9 | 9 |
| 2023-07-04 | 8 | 6 | 18 | 8 |
| 2023-07-05 | 18 | 6 | 3 | 15 |
| 2023-07-06 | 11 | 0 | 8 | 16 |
| 2023-07-07 | 11 | 10 | 18 | 17 |
| 2023-07-08 | 1 | 16 | 10 | 17 |
| 2023-07-09 | 14 | 19 | 1 | 8 |
| 2023-07-10 | 19 | 7 | 20 | 1 |

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| 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  No reservations!  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 0  ? 31  ? 2  Choose a time:  1. 11:30  2. 13:30  ? 0  ? 3  ? 4  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2023/06/13 11:30  Reservation Completed.  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 2  Enter phone Number: 99  1. 6 guests 2023/06/13 11:30  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 2  Choose a time:  2. 13:30  ? 2  Enter name: 99  Enter phone Number: 99  6 guests 2023/06/13 13:30  Reservation Completed.  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 2  Choose a time:  2. 13:30  ? 2  Enter name: 88  Enter phone Number: 88  6 guests 2023/06/13 13:30  Reservation Completed.  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 2  Choose a time:  2. 13:30  ? 2  Enter name: 77  Enter phone Number: 77  6 guests 2023/06/13 13:30  Reservation Completed.  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 3. 2023/06/14 4. 2023/06/15 5. 2023/06/16  6. 2023/06/17 7. 2023/06/18 8. 2023/06/19 9. 2023/06/20  10. 2023/06/21 11. 2023/06/22 12. 2023/06/23 13. 2023/06/24  14. 2023/06/25 15. 2023/06/26 16. 2023/06/27 17. 2023/06/28  18. 2023/06/29 19. 2023/06/30 20. 2023/07/01 21. 2023/07/02  22. 2023/07/03 23. 2023/07/04 24. 2023/07/05 25. 2023/07/06  26. 2023/07/07 27. 2023/07/08 28. 2023/07/09 29. 2023/07/10  30. 2023/07/11  ? 2  ? 1  Choose a time:  1. 11:30  3. 17:45  4. 19:45  ? 2  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2023/06/12 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 . . . |

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| 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 2023/06/13 11:30  2. 6 guests 2023/06/13 13:30  3. 6 guests 2023/06/12 11:30  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 2  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 2  Choose a time:  1. 11:30  3. 17:45  ? 3  Enter name: 66  Enter phone Number: 66  2 guests 2023/06/13 17:45  Reservation Completed.  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 2  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 2  Choose a time:  1. 11:30  ? 1  Enter name: 55  Enter phone Number: 55  2 guests 2023/06/13 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 . . . |

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| 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 2023/06/13 11:30  2. 6 guests 2023/06/13 13:30  3. 6 guests 2023/06/12 11:30  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 2  Enter phone Number: 88  1. 6 guests 2023/06/13 13:30  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 2  Enter phone Number: 77  1. 6 guests 2023/06/13 13:30  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 2  Enter phone Number: 66  1. 2 guests 2023/06/13 17:45  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 2  Enter phone Number: 55  1. 2 guests 2023/06/13 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 . . . |

Test case 2

current date: 2023-06-11

AvailSeats - 2023-05-26.dat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2023-05-26 | 3 | 5 | 6 | 8 |
| 2023-05-27 | 0 | 15 | 16 | 13 |
| 2023-05-28 | 16 | 4 | 13 | 7 |
| 2023-05-29 | 10 | 18 | 2 | 0 |
| 2023-05-30 | 14 | 1 | 1 | 2 |
| 2023-05-31 | 14 | 13 | 17 | 6 |
| 2023-06-01 | 6 | 4 | 19 | 9 |
| 2023-06-02 | 17 | 15 | 6 | 15 |
| 2023-06-03 | 16 | 16 | 6 | 3 |
| 2023-06-04 | 3 | 9 | 5 | 0 |
| 2023-06-05 | 7 | 17 | 16 | 16 |
| 2023-06-06 | 11 | 8 | 11 | 6 |
| 2023-06-07 | 10 | 17 | 9 | 12 |
| 2023-06-08 | 12 | 4 | 20 | 20 |
| 2023-06-09 | 15 | 1 | 9 | 2 |
| 2023-06-10 | 18 | 6 | 1 | 19 |
| 2023-06-11 | 16 | 14 | 10 | 11 |
| 2023-06-12 | 16 | 7 | 5 | 12 |
| 2023-06-13 | 7 | 18 | 20 | 16 |
| 2023-06-14 | 7 | 0 | 8 | 20 |
| 2023-06-15 | 10 | 3 | 11 | 3 |
| 2023-06-16 | 10 | 6 | 10 | 20 |
| 2023-06-17 | 16 | 0 | 19 | 7 |
| 2023-06-18 | 3 | 4 | 9 | 9 |
| 2023-06-19 | 8 | 6 | 18 | 8 |
| 2023-06-20 | 18 | 6 | 3 | 15 |
| 2023-06-21 | 11 | 0 | 8 | 16 |
| 2023-06-22 | 11 | 10 | 18 | 17 |
| 2023-06-23 | 1 | 16 | 10 | 17 |
| 2023-06-24 | 14 | 19 | 1 | 8 |
| 2023-06-25 | 19 | 7 | 20 | 1 |

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| Welcome to Zuo Zhe Zuo Sushi Wo Shou Si  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 1  Choose a time:  1. 11:30  2. 13:30  4. 19:45  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2023/06/12 11:30  Reservation Completed.  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 30  Choose a time:  1. 11:30  2. 13:30  3. 17:45  4. 19:45  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2023/07/11 11:30  Reservation Completed.  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 2  Enter phone Number: 99  1. 6 guests 2023/06/12 11:30  2. 6 guests 2023/07/11 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 . . . |

Test case 3

current date: 2023-06-11

AvailSeats - 2023- 05-06.dat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2023-05-06 | 3 | 5 | 6 | 8 |
| 2023-05-07 | 0 | 15 | 16 | 13 |
| 2023-05-08 | 16 | 4 | 13 | 7 |
| 2023-05-09 | 10 | 18 | 2 | 0 |
| 2023-05-10 | 14 | 1 | 1 | 2 |
| 2023-05-11 | 14 | 13 | 17 | 6 |
| 2023-05-12 | 6 | 4 | 19 | 9 |
| 2023-05-13 | 17 | 15 | 6 | 15 |
| 2023-05-14 | 16 | 16 | 6 | 3 |
| 2023-05-15 | 3 | 9 | 5 | 0 |
| 2023-05-16 | 7 | 17 | 16 | 16 |
| 2023-05-17 | 11 | 8 | 11 | 6 |
| 2023-05-18 | 10 | 17 | 9 | 12 |
| 2023-05-19 | 12 | 4 | 20 | 20 |
| 2023-05-20 | 15 | 1 | 9 | 2 |
| 2023-05-21 | 18 | 6 | 1 | 19 |
| 2023-05-22 | 16 | 14 | 10 | 11 |
| 2023-05-23 | 16 | 7 | 5 | 12 |
| 2023-05-24 | 7 | 18 | 20 | 16 |
| 2023-05-25 | 7 | 0 | 8 | 20 |
| 2023-05-26 | 10 | 3 | 11 | 3 |
| 2023-05-27 | 10 | 6 | 10 | 20 |
| 2023-05-28 | 16 | 0 | 19 | 7 |
| 2023-05-29 | 3 | 4 | 9 | 9 |
| 2023-05-30 | 8 | 6 | 18 | 8 |
| 2023-05-31 | 18 | 6 | 3 | 15 |
| 2023-06-01 | 11 | 0 | 8 | 16 |
| 2023-06-02 | 11 | 10 | 18 | 17 |
| 2023-06-03 | 1 | 16 | 10 | 17 |
| 2023-06-04 | 14 | 19 | 1 | 8 |
| 2023-06-05 | 19 | 7 | 20 | 1 |

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| --- |
| Welcome to Zuo Zhe Zuo Sushi Wo Shou Si  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 30  Choose a time:  1. 11:30  2. 13:30  3. 17:45  4. 19:45  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2023/07/11 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 . . . Welcome to Zuo Zhe Zuo Sushi Wo Shou Si  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 30  Choose a time:  1. 11:30  2. 13:30  3. 17:45  4. 19:45  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2023/07/11 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 . . . Welcome to Zuo Zhe Zuo Sushi Wo Shou Si  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 30  Choose a time:  1. 11:30  2. 13:30  3. 17:45  4. 19:45  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2023/07/11 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 . . . |

Test case 4

current date: 2023-06-11

AvailSeats - blank.dat

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| --- |
| Welcome to Zuo Zhe Zuo Sushi Wo Shou Si  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/6/11  Choose a date  1. 2023/06/12 2. 2023/06/13 3. 2023/06/14 4. 2023/06/15  5. 2023/06/16 6. 2023/06/17 7. 2023/06/18 8. 2023/06/19  9. 2023/06/20 10. 2023/06/21 11. 2023/06/22 12. 2023/06/23  13. 2023/06/24 14. 2023/06/25 15. 2023/06/26 16. 2023/06/27  17. 2023/06/28 18. 2023/06/29 19. 2023/06/30 20. 2023/07/01  21. 2023/07/02 22. 2023/07/03 23. 2023/07/04 24. 2023/07/05  25. 2023/07/06 26. 2023/07/07 27. 2023/07/08 28. 2023/07/09  29. 2023/07/10 30. 2023/07/11  ? 30  Choose a time:  1. 11:30  2. 13:30  3. 17:45  4. 19:45  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2023/07/11 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 . . . |

Test case 5

current date: 2022-12-02

AvailSeats - 2022-12-01.dat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2022-12-01 | 3 | 5 | 6 | 8 |
| 2022-12-02 | 0 | 15 | 16 | 13 |
| 2022-12-03 | 16 | 4 | 13 | 7 |
| 2022-12-04 | 10 | 18 | 2 | 0 |
| 2022-12-05 | 14 | 1 | 1 | 2 |
| 2022-12-06 | 14 | 13 | 17 | 6 |
| 2022-12-07 | 6 | 4 | 19 | 9 |
| 2022-12-08 | 17 | 15 | 6 | 15 |
| 2022-12-09 | 16 | 16 | 6 | 3 |
| 2022-12-10 | 3 | 9 | 5 | 0 |
| 2022-12-11 | 7 | 17 | 16 | 16 |
| 2022-12-12 | 11 | 8 | 11 | 6 |
| 2022-12-13 | 10 | 17 | 9 | 12 |
| 2022-12-14 | 12 | 4 | 20 | 20 |
| 2022-12-15 | 15 | 1 | 9 | 2 |
| 2022-12-16 | 18 | 6 | 1 | 19 |
| 2022-12-17 | 16 | 14 | 10 | 11 |
| 2022-12-18 | 16 | 7 | 5 | 12 |
| 2022-12-19 | 7 | 18 | 20 | 16 |
| 2022-12-20 | 7 | 0 | 8 | 20 |
| 2022-12-21 | 10 | 3 | 11 | 3 |
| 2022-12-22 | 10 | 6 | 10 | 20 |
| 2022-12-23 | 16 | 0 | 19 | 7 |
| 2022-12-24 | 3 | 4 | 9 | 9 |
| 2022-12-25 | 8 | 6 | 18 | 8 |
| 2022-12-26 | 18 | 6 | 3 | 15 |
| 2022-12-27 | 11 | 0 | 8 | 16 |
| 2022-12-28 | 11 | 10 | 18 | 17 |
| 2022-12-29 | 1 | 16 | 10 | 17 |
| 2022-12-30 | 14 | 19 | 1 | 8 |
| 2022-12-31 | 19 | 7 | 20 | 1 |

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| Welcome to Zuo Zhe Zuo Sushi Wo Shou Si  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 5  Current date: 2022/12/2  Choose a date  1. 2022/12/03 2. 2022/12/04 3. 2022/12/05 4. 2022/12/06  5. 2022/12/07 6. 2022/12/08 7. 2022/12/09 8. 2022/12/10  9. 2022/12/11 10. 2022/12/12 11. 2022/12/13 12. 2022/12/14  13. 2022/12/15 14. 2022/12/16 15. 2022/12/17 16. 2022/12/18  17. 2022/12/19 18. 2022/12/20 19. 2022/12/21 20. 2022/12/22  21. 2022/12/23 22. 2022/12/24 23. 2022/12/25 24. 2022/12/26  25. 2022/12/27 26. 2022/12/28 27. 2022/12/29 28. 2022/12/30  29. 2022/12/31 30. 2023/01/01  ? 30  Choose a time:  1. 11:30  2. 13:30  3. 17:45  4. 19:45  ? 1  Enter name: 99  Enter phone Number: 99  5 guests 2023/01/01 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 . . . |

Test case 6

current date: 2023-01-30

AvailSeats - 2023-01-29.dat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2023-01-29 | 3 | 5 | 6 | 8 |
| 2023-01-30 | 0 | 15 | 16 | 13 |
| 2023-01-31 | 16 | 4 | 13 | 7 |
| 2023-02-01 | 10 | 18 | 2 | 0 |
| 2023-02-02 | 14 | 1 | 1 | 2 |
| 2023-02-03 | 14 | 13 | 17 | 6 |
| 2023-02-04 | 6 | 4 | 19 | 9 |
| 2023-02-05 | 17 | 15 | 6 | 15 |
| 2023-02-06 | 16 | 16 | 6 | 3 |
| 2023-02-07 | 3 | 9 | 5 | 0 |
| 2023-02-08 | 7 | 17 | 16 | 16 |
| 2023-02-09 | 11 | 8 | 11 | 6 |
| 2023-02-10 | 10 | 17 | 9 | 12 |
| 2023-02-11 | 12 | 4 | 20 | 20 |
| 2023-02-12 | 15 | 1 | 9 | 2 |
| 2023-02-13 | 18 | 6 | 1 | 19 |
| 2023-02-14 | 16 | 14 | 10 | 11 |
| 2023-02-15 | 16 | 7 | 5 | 12 |
| 2023-02-16 | 7 | 18 | 20 | 16 |
| 2023-02-17 | 7 | 0 | 8 | 20 |
| 2023-02-18 | 10 | 3 | 11 | 3 |
| 2023-02-19 | 10 | 6 | 10 | 20 |
| 2023-02-20 | 16 | 0 | 19 | 7 |
| 2023-02-21 | 3 | 4 | 9 | 9 |
| 2023-02-22 | 8 | 6 | 18 | 8 |
| 2023-02-23 | 18 | 6 | 3 | 15 |
| 2023-02-24 | 11 | 0 | 8 | 16 |
| 2023-02-25 | 11 | 10 | 18 | 17 |
| 2023-02-26 | 1 | 16 | 10 | 17 |
| 2023-02-27 | 14 | 19 | 1 | 8 |
| 2023-02-28 | 19 | 7 | 20 | 1 |

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| Welcome to Zuo Zhe Zuo Sushi Wo Shou Si  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2023/1/30  Choose a date  1. 2023/01/31 2. 2023/02/01 3. 2023/02/02 4. 2023/02/03  5. 2023/02/04 6. 2023/02/05 7. 2023/02/06 8. 2023/02/07  9. 2023/02/08 10. 2023/02/09 11. 2023/02/10 12. 2023/02/11  13. 2023/02/12 14. 2023/02/13 15. 2023/02/14 16. 2023/02/15  17. 2023/02/16 18. 2023/02/17 19. 2023/02/18 20. 2023/02/19  21. 2023/02/20 22. 2023/02/21 23. 2023/02/22 24. 2023/02/23  25. 2023/02/24 26. 2023/02/25 27. 2023/02/26 28. 2023/02/27  29. 2023/02/28 30. 2023/03/01  ? 30  Choose a time:  1. 11:30  2. 13:30  3. 17:45  4. 19:45  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2023/03/01 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 . . . |

Test case 7

current date: 2024-01-31

AvailSeats - 2024-01-30.dat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2024-01-30 | 3 | 5 | 6 | 8 |
| 2024-01-31 | 0 | 15 | 16 | 13 |
| 2024-02-01 | 16 | 4 | 13 | 7 |
| 2024-02-02 | 10 | 18 | 2 | 0 |
| 2024-02-03 | 14 | 1 | 1 | 2 |
| 2024-02-04 | 14 | 13 | 17 | 6 |
| 2024-02-05 | 6 | 4 | 19 | 9 |
| 2024-02-06 | 17 | 15 | 6 | 15 |
| 2024-02-07 | 16 | 16 | 6 | 3 |
| 2024-02-08 | 3 | 9 | 5 | 0 |
| 2024-02-09 | 7 | 17 | 16 | 16 |
| 2024-02-10 | 11 | 8 | 11 | 6 |
| 2024-02-11 | 10 | 17 | 9 | 12 |
| 2024-02-12 | 12 | 4 | 20 | 20 |
| 2024-02-13 | 15 | 1 | 9 | 2 |
| 2024-02-14 | 18 | 6 | 1 | 19 |
| 2024-02-15 | 16 | 14 | 10 | 11 |
| 2024-02-16 | 16 | 7 | 5 | 12 |
| 2024-02-17 | 7 | 18 | 20 | 16 |
| 2024-02-18 | 7 | 0 | 8 | 20 |
| 2024-02-19 | 10 | 3 | 11 | 3 |
| 2024-02-20 | 10 | 6 | 10 | 20 |
| 2024-02-21 | 16 | 0 | 19 | 7 |
| 2024-02-22 | 3 | 4 | 9 | 9 |
| 2024-02-23 | 8 | 6 | 18 | 8 |
| 2024-02-24 | 18 | 6 | 3 | 15 |
| 2024-02-25 | 11 | 0 | 8 | 16 |
| 2024-02-26 | 11 | 10 | 18 | 17 |
| 2024-02-27 | 1 | 16 | 10 | 17 |
| 2024-02-28 | 14 | 19 | 1 | 8 |
| 2024-02-29 | 19 | 7 | 20 | 1 |

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| Welcome to Zuo Zhe Zuo Sushi Wo Shou Si  Enter Your Choice  1. Make Reservation  2. Reservation Enquiry  3. End Program  ? 1  Enter the party size (1~6): ? 6  Current date: 2024/1/31  Choose a date  1. 2024/02/01 2. 2024/02/02 3. 2024/02/03 4. 2024/02/04  5. 2024/02/05 6. 2024/02/06 7. 2024/02/07 8. 2024/02/08  9. 2024/02/09 10. 2024/02/10 11. 2024/02/11 12. 2024/02/12  13. 2024/02/13 14. 2024/02/14 15. 2024/02/15 16. 2024/02/16  17. 2024/02/17 18. 2024/02/18 19. 2024/02/19 20. 2024/02/20  21. 2024/02/21 22. 2024/02/22 23. 2024/02/23 24. 2024/02/24  25. 2024/02/25 26. 2024/02/26 27. 2024/02/27 28. 2024/02/28  29. 2024/02/29 30. 2024/03/01  ? 30  Choose a time:  1. 11:30  2. 13:30  3. 17:45  4. 19:45  ? 1  Enter name: 99  Enter phone Number: 99  6 guests 2024/03/01 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 . . . |