Island Air

Island Air operates a small commuter airline with a single plane that seats 6 passengers. The plane makes one flight per day. Write a seating reservation program as described.

The passenger information is stored in an array of 6 structures.

Each structure holds the seat number (1-6), a marker that indicates if the seat has been assigned, the passenger's first name and last name.

The program repeatedly displays the following menu until Quit is selected.

1. Show list of empty seats
2. Assign a seat
3. Delete a seat assignment
4. Show passenger list
5. Quit

Choice 2 Assign a seat, requires input from the user. The seat number and the first and last names of the passenger.

Choice 3 Delete a seat assignment, requires the user to enter the seat number.

Checks should be made so that a passenger can't be assigned to a seat that is already assigned.
A separate function should be provided to accomplish each of the choices 1,2,3 and 4. Other functions may be added as necessary.

Example run.

1. Show list of empty seats
2. Assign a seat
3. Delete a seat assignment
4. Show passenger list
5. Quit
6. Enter 1-5: 1 Show list of empty seats
There are 6 empty seats
1 2
 3 4
 5 6

(show menu)
Enter 1-5: 2 Assign a seat
There are 6 empty seats
 1 2
 3 4
 5 6
Enter seat number: 5
Passenger first name: Sara
Passenger last name: Smith
Seat 5 assigned to Sara Smith

(show menu)
Enter 1-5: 1 Show list of empty seats
There are 5 empty seats
 1 2
 3 4
 – 6

(show menu)
7. Enter 1-5: 3 Delete a seat assignment
There are 5 empty seats
 1 2
 3 4
 – 6
Enter seat number: 4
Seat 4 is not assigned.

(show menu)
8. Enter 1-5: 3 Delete a seat assignment
There are 5 empty seats
 1 2
 3 4
 – 6
Enter seat number: 5
Seat 5 was assigned to Sara Smith
Seat 5 is now available.

(show menu)
Enter 1-5: 1 Show list of empty seats
There are 6 empty seats
1 2
 3 4
 5 6

(show menu)
Enter 1-5: 4 Show passenger list
(assuming seat 2 was assigned to Kevin Li and seat 5 was assigned to Sara Smith)

Seat   Passenger
 2   Kevin Li
 5   Sara Smith

(show menu)
Enter 1-5: 5 Quit
Goodby!