

1. The source code is found in the expedia project, and the test code is contained in the Expedia-test project
2. The classes that exist are AssemblyInfo, Booking, Car, Flight, Hotel, User, Booking Test, CarTest, FlightTest, HotelTest, and UserTest.
3. The flight class seems to create new flight objects that contain the miles, and starting and ending times of flights, and can compare two flights to see if they are equal. It also can book a flight using the booking class.
4. The test classes include Booking Test, CarTest, FlightTest, HotelTest, and UserTest.
5. Testing methods in User Test are:
 - a. TestThatUserInitializes
 - b. TestThatUserHasZeroFrequentFlierMilesOnInit
 - c. TestThatUserCanBookEverything
 - d. TestThatUserHasFrequentFlierMilesAfterBooking
 - e. TestThatUserCanBookAFlight
 - f. TestThatUserCanBookAHotelAndACar
 - g. TestThatUserHasCorrectNumberOfFrequentFlyerMilesAfterOneFlight
6. Three assert functions are:
 - a. Assert.AreEqual
 - b. Assert.AreSame
 - c. Assert.Contains
7. The functions in question 6 do:
 - a. Tests to see if two objects have the same value
 - b. Tests to see if two pointers point to the same object
 - c. Tests to see if an object is contained in a list
8. areSame and areEqual are different in that two objects can contain the same value, but be different objects. areSame tests to see if two objects are actually the same object, while areEqual only tests if their values are the same.
9. The unit test is testing that the hotel object initializes properly when the constructor is called. It tests to see that target, the variable contains the new hotel object, is not null.
10. The generic algorithm for base price seems to be $45 \times \text{the number of day to rent}$.
11. The cases that are tested are 1 day, 2 days, and 10 days.
12. We already made sure that the object would not be null in another test case.
13. This test case expects an exception because of the
"[ExpectedException(typeof(ArgumentOutOfRangeException))]" line in the code
14. [ExpectedException(typeof(OutOfMemoryException))]
- 15.