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Lab3 Answers

1. The source code is in Expedia and the test code is in ExpediaTest.
2. In expedia, the classes are Car, Flight, Hotel, User. There is also a booking interface and some assemblyinfo in a separate file. In ExpediaTest, the classes are BookingTest, CarTest, FlightTest, HotelTest, UserTest.
3. The flight class has some basic information about a flight like the start/end time and the distance. It also contains methods to compare flights by checking if all there attributes are the same. It also implements the booking function which determines a price based on the difference in start/leave time. You can also get and set the miles of a flight.
4. As above, the test classes are BookingTest, CarTest, FlightTest, HotelTest, and UserTest.
5. Test methods include TestThatUserInitializes(), TestThatUserHasZeroFrequentFlierMilesOnInit(), TestThatUserCanBookEverything(), TestThatUserHasFrequentFlierMilesAfterBooking(), TestThatUserCanBookAFlight(), TestThatUserCanBookAHotelAndACar(), TestThatUserHasCorrectNumberOfFrequentFlyerMilesAfterOneFlight().
6. Three functions that are supported are DoesNotThrow(), IsNotNull(), and Contains().
7. DoesNotThrow() checks if the tested method completes without throwing any exceptions. IsNotNull() checks if the specified value is not null, throws an assertianexception if it is. Contains() asserts that an object is contained in a list.
8. AreEqual() checks if the objects are both null or share the same value while AreSame() checks if they refer to the same object.
9. It tests that the Hotel object is created.
10. It is 45 * the number of nights to rent the room.
11. A one, two, and ten day stay are tested.
12. We are not creating an object; rather, we are testing a value.
13. If the constructor receives a value less than or equal to zero, it throws an ArgumentOutOfRangeException.
14. [ExpectedException(typeof(OutOfMemoryException))]