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### Lab 3

Q1: The source code is found in the Expedia project. The test code is found in the ExpediaTest project.

Q2: Booking, Car, Flight, Hotel, User

Q3: The Flight class holds the start date, end date, and frequent flier miles accrued in a flight.

Q4: BookingTest, CarTest, FlightTest, HotelTest, UserTest

Q5: TestThatUserInitializes(), TestThatUserHasZeroFrequentFlierOnInit(),  
TestThatUserCanBookEverything(), TestThatUserHasFrequentFlierMilesAfterBooking(),  
TestThatUserCanBookAFlight(), TestThatUserCanBookAHotelAndACar(),  
TestThatUserHasCorrectNumberOfFrequentFlyerMilesAfterOneFlight()

Q6: AreEqual, AreNotEqual, AreSame, DoesNotThrow

Q7: AreEqual and AreNotEqual verify whether two values are equal or not. AreSame verifies whether two objects are the same object. DoesNotThrow verifies whether a method throws an exception.

Q8: AreEqual verifies whether a value is equal to another value. AreSame verifies whether two objects are the same object.

Q9: TestThatHotelInitializes verifies that the new Hotel instance that was created exists.

Q10:  $45 * \text{numberOfNightsToRent}$

Q11: They test that the base price for hotel rentals for one, two, and ten days are correct.

Q12: We have already tested whether the constructor works, so if the constructor does not work, the test will fail before the new tests are called.

Q13: This test expects an exception because the constructor throws an exception if the number of nights to rent is less than one.

Q14: [ExpectedException(typeof(OutOfMemoryException))]