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Lab 3

1. The source code is found in the Expedia project and the test code is found in the ExpediaTest project.
2. Booking, Car, Flight, Hotel, User
3. The flight class has the start date of the flight, the end date of the flight, and the miles the flight goes. Also it checks to see if an object is equal to the flight object. Also, it checks to see if all fields of the flight class passed in equal the current flight class.
4. BookingTest, CarTest, FlightTest, HotelTest, UserTest
5. TestThatUserInitializes, TestThatUserHasZeroFrequentFlierMilesOnInit, TestThatUserCanBookEverything, TestThatUserHasFrequentFlierMilesAfterBooking, TestThatUserCanBookAFlight, TestThatUserCanBookAHotelAndACar, TestThatUserHasCorrectNumberOfFrequentFlyerMilesAfterOneFlight
6. AreEqual, AreNotEqual, and AreNotSame
7. AreEqual checks if the value of the two items passed in are the same. AreNotEqual checks to see if they are not equal. AreNotSame checks if the object identities are not the same.
8. AreEqual checks if the value stored in the objects are equal. AreSame checks if they are the same object identity
9. The test checks that the Hotel objects and being initialized correctly
10. The algorithm for getBasePrice is nightsToRent multiple by 45
11. Checks if BasePrice is being calculated correcltey
12. We do not need to do it because we checked if the object was initialized correctly
13. An exception is expected because that is what Hotel throws when it is initialized incorrectly
14. [ExpectedException(typeof(ArgumentOutOfMemoryException))]