Quesiton 1: Expedia has the source code. ExpediaTest has the test code.

Question 2: Booking, Car, Flight, Hotel, User, AssemblyInfo and their corresponding test classes BookingTest, CarTest, FlightTest, HotelTest, UserTest.

Question 3: The flight class has functionality to create a new flight with a given start Date, end Date, and miles. The flight class can also determine if an object is of type flight. It does so by checking the start date, the end date and the miles. If they are all equivalent, return true. Otherwise, return false.

Question 4: The test classes are BookingTest, CarTest, FlightTest, HotelTest, UserTest.

Question 5: The test methods in the UserTest class are: TestThatUserInitializes, TestThatUserHasZeroFrequentFlierMilesOnInit, TestThatUserCanBookEverything, TestThatUserHasFrequentFlierMilesAfterBooking, TestThatUserCanBookAFlight, TestThatUserCanBookAHotelAndACar, TestThatUserHasCorrectNumberOfFrequentFlyerMilesAfterOneFlight

Question 6: Three functions supported by the Assert class are areEqual(), areNotEqual(), and areSame().

Question 7: areEqual() determines if the objects have the same value. areNotEqual() determines if they have different values. areSame() determines if the two objects are actually the same object.

Question 8: areEqual() checks the values. areSame() checks if the objects reference the same object (ie. they ARE the same object).

Question 9: The test TestThatHotelInitializes determines if a new hotel object was successfully created by determining if the value of the object is not null

Question 10: 45 times the number of times to rent. Or, $45 per night.

Question 11: The tests determine that the hotel has the correct base price for a one night stay, that the hotel charges the correct amount for a two night stay, and that the hotel charges the correct amount for a ten night stay.

Question 12: We do not need to include an Assert.IsNotNull for two reasons. First, the tests are not testing if the object is created or not. This is being tested first. Furthermore, if the first test passes, we know that the object is not null and is initialized.

Question 13: This test expects an exception because one does not simply stay a negative number of nights at a hotel.

Question 14: [ExpectedException(typeof(OutOfMemoryException))]