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1- Code + Screenshots of all your test code above as well as all code you modify.

@Test - matchAnswersFalseWhenMustMatchCriteriaNotMet()

```
package iloveyouboss;
import static org.junit.Assert.*;
import org.junit.Before;
import org.junit.Test;
public class ProfileTest {
@Test
       public void matchAnswersFalseWhenMustMatchCriteriaNo
tMet() {
           Profile profile = new Profile("Bull Hockey, In
c.");
           Question question = new BooleanQuestion(1, "Got
bonuses?");
           Answer profileAnswer = new Answer(question, Boo
1.FALSE);
           profile.add(profileAnswer);
           Criteria criteria = new Criteria();
```

```
Answer criteriaAnswer = new Answer(question, Boo

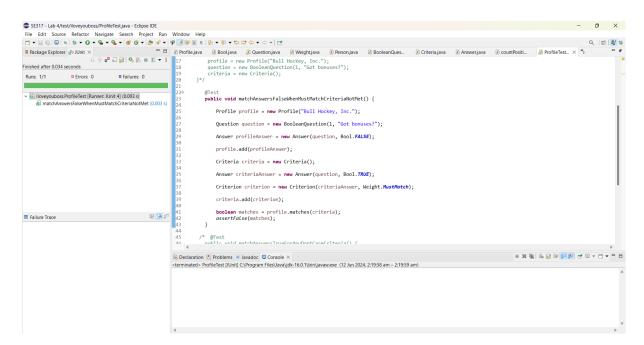
1.TRUE);

Criterion criterion = new Criterion(criteriaAnsw

er, Weight.MustMatch);

criteria.add(criterion);

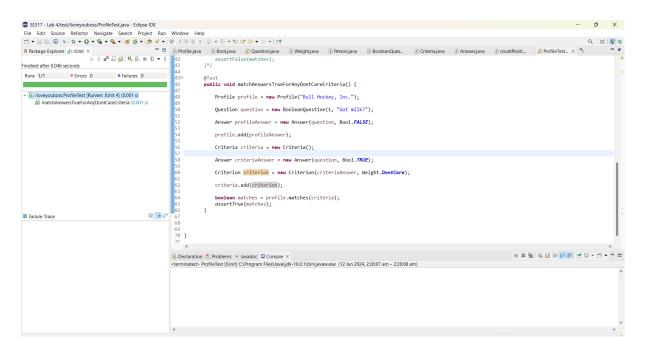
boolean matches = profile.matches(criteria);
assertFalse(matches);
}
```



@Test - matchAnswersTrueForAnyDontCareCriteria()

```
@Test
    public void matchAnswersTrueForAnyDontCareCriteria()
{
    Profile profile = new Profile("Bull Hockey, In
```

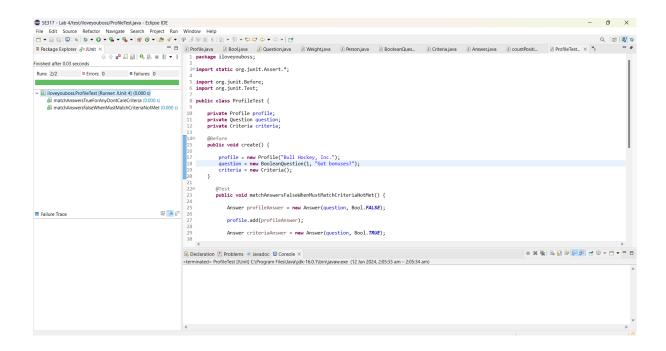
```
c.");
           Question question = new BooleanQuestion(1, "Got
milk?");
           Answer profileAnswer = new Answer(question, Boo
1.FALSE);
           profile.add(profileAnswer);
           Criteria criteria = new Criteria();
           Answer criteriaAnswer = new Answer(question, Boo
1.TRUE);
           Criterion criterion = new Criterion(criteriaAnsw
er, Weight.DontCare);
           criteria.add(criterion);
           boolean matches = profile.matches(criteria);
           assertTrue(matches);
       }
```



## • @Before - create()

```
package iloveyouboss;
import static org.junit.Assert.*;
import org.junit.Before;
import org.junit.Test;
public class ProfileTest {
    private Profile profile;
    private Question question;
    private Criteria criteria;
    @Before
    public void create() {
        profile = new Profile("Bull Hockey, Inc.");
        question = new BooleanQuestion(1, "Got bonuses?");
        criteria = new Criteria();
    }
      @Test
       public void matchAnswersFalseWhenMustMatchCriteriaNo
tMet() {
           Answer profileAnswer = new Answer(question, Boo
1.FALSE);
           profile.add(profileAnswer);
           Answer criteriaAnswer = new Answer(question, Boo
1.TRUE);
           Criterion criterion = new Criterion(criteriaAnsw
er, Weight.MustMatch);
           criteria.add(criterion);
```

```
boolean matches = profile.matches(criteria);
           assertFalse(matches);
       }
           @Test
           public void matchAnswersTrueForAnyDontCareCriter
ia() {
               Answer profileAnswer = new Answer(question,
Bool.FALSE);
               profile.add(profileAnswer);
               Answer criteriaAnswer = new Answer(question,
Bool.TRUE);
               Criterion criterion = new Criterion(criteria
Answer, Weight.DontCare);
               criteria.add(criterion);
               boolean matches = profile.matches(criteria);
               assertTrue(matches);
           }
}
```



2- Detailed answers of the two questions above

**Question 1**: If the JUnit chooses to run matchAnswersTrueForAnyDontCareCriteria() first, what is the sequence of events?

- a. JUnit will execute '@Before' method to initialize the 'profile', 'question' and 'criteria' objects.
- b. The test 'matchAnswersTrueForAnyDontCareCriteria()' will then be executed. This execution will set the profile answer to false, adding it to profile, setting the criteria answer to true, adding it to the criteria with weight 'DontCare', and lastly asserting that 'profile.matches(criteria)' returns true.

**Question 2:** In order to minimize the impact any one test has on another (avoiding static fields in test cases as well), create a more condensed but more readable arrange portion of each test by in lining some local variables.

```
package iloveyouboss;
import static org.junit.Assert.*;
```

```
import org.junit.Before;
import org.junit.Test;
public class ProfileTest {
    private Profile profile;
    private Question question;
    private Criteria criteria;
    @Before
    public void create() {
        profile = new Profile("Bull Hockey, Inc.");
        question = new BooleanQuestion(1, "Got bonuses?");
        criteria = new Criteria();
    }
      @Test
       public void matchAnswersFalseWhenMustMatchCriteriaNo
tMet() {
           profile.add(new Answer(question, Bool.FALSE));
           criteria.add( new Criterion( new Answer(questio
n, Bool.TRUE), Weight.MustMatch));
           assertFalse(profile.matches(criteria));
       }
           @Test
           public void matchAnswersTrueForAnyDontCareCriter
ia() {
               profile.add(new Answer(question, Bool.FALS
E));
```

