

lab 3
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Modified code

```
1 package lab3;
2
3 import static org.junit.Assert.*;
4
5 public class ProfileTest {
6     private Profile profile;
7     private Question question;
8     private Criteria criteria;
9
10    @Before
11    public void create() {
12        profile = new Profile("Bull Hockey, Inc.");
13        question = new BooleanQuestion(1, "Got bonuses?");
14        criteria = new Criteria();
15    }
16
17    @Test
18    public void matchAnswersFalseWhenMustMatchCriteriaNotMet() {
19        Answer profileAnswer = new Answer(question, Bool.FALSE);
20        profile.add(profileAnswer);
21        Answer criteriaAnswer = new Answer(question, Bool.TRUE);
22        Criterion criterion = new Criterion(criteriaAnswer, Weight.MustMatch);
23        criteria.add(criterion);
24
25        boolean matches = profile.matches(criteria);
26        assertFalse(matches);
27    }
28
29    @Test
30    public void matchAnswersTrueForAnyDontCareCriteria() {
31        question = new BooleanQuestion(1, "Got milk?");
32        Answer profileAnswer = new Answer(question, Bool.FALSE);
33        profile.add(profileAnswer);
34        Answer criteriaAnswer = new Answer(question, Bool.TRUE);
35        Criterion criterion = new Criterion(criteriaAnswer, Weight.DontCare);
36        criteria.add(criterion);
37
38        boolean matches = profile.matches(criteria);
39        assertTrue(matches);
40    }
41 }
42 }
```

Question 1:

1. JUnit creates a new instance of ProfileTest including uninitialized profile, question and criteria.
2. It calls @before method.
3. It calls matchAnswersTrueForDontCareCriteria, executes each statement, and tells if the test passed or failed.
4. It creates a new instance of ProfileTest for another test to process.
5. It calls @before method.
6. It calls the other test.

Question 2:

```
1 package lab3;
2
3+ import static org.junit.Assert.*;
4
5
6
7
8 public class ProfileTest {
9     private Profile profile;
10    private Question question;
11    private Criteria criteria;
12
13    @Before
14    public void create() {
15        profile = new Profile("Bull Hockey, Inc.");
16        question = new BooleanQuestion(1, "Got bonuses?");
17        criteria = new Criteria();
18    }
19
20    @Test
21    public void matchAnswersFalseWhenMustMatchCriteriaNotMet() {
22        profile.add(new Answer(question, Bool.FALSE));
23        criteria.add(new Criterion(new Answer(question, Bool.TRUE), Weight.MustMatch));
24        boolean matches = profile.matches(criteria);
25        assertFalse(matches);
26    }
27
28    @Test
29    public void matchAnswersTrueForAnyDontCareCriteria() {
30        profile.add(new Answer(question, Bool.FALSE));
31        criteria.add(new Criterion(new Answer(question, Bool.TRUE), Weight.DontCare));
32        boolean matches = profile.matches(criteria);
33        assertTrue(matches);
34    }
35
36 }
```