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Stage 7 Post

Fill in The Blank From the Vocabulary List

1. We never have the dangling else problem if we always put all of the curly braces in our conditional statements.
2. We focus our tests on happy cases because exhaustive testing is too expensive or impossible to achieve.
3. TDD helps us with problem decomposition because we write the code for one test at a time.

Be the Machine

What is the border case the following test is checking? (Remember that a border case is two values between which the behavior changes)

```
@Test
public void testTheBorder()
{
    MyThing x = new MyThing(42);
    assertTrue(x.isTooBig());
    x = new MyThing(41);
    assertFalse(x.isTooBig());
}
```

41 and 42

Consider the following method:

```
public double myValue(int x)
{
    if ((x % 2 == 0) && (x > 42))
    {
        return x/2.0;
    } else
    {
        return x;
    }
}
```

Write a method that is equivalent to the method myValue that uses only one return statement

```
public double myValue(int x) {
    if ((x % 2 == 0) && (x > 42)) {
        x = x/2.0;
    } else {
        x = x;
    }
    return x;
}
```

Write a method that is equivalent to the method myValue that does not use an else block

```
public double myValue (int x) {  
    if ((x % 2 == 0) && (x > 42)) {  
        x = x / 2.0;  
        return x;  
    }  
    return x;  
}
```

Write a method that is equivalent to the method myValue that uses an || and does not use &&

```
public static double myValue (int x) {  
    if (!(x % 2 == 0) || (x <= 42)) {  
        x = x / 2.0;  
        return x;  
    }  
    return x;  
}
```

}

