

# Example - Dice Cup

```
public class FakeDie extends Die {  
    int weightedValue;  
  
    public FakeDie(int weightedValue, int numSides) {  
        super(numSides);  
        this.weightedValue = weightedValue;  
    }  
  
    @Override  
    public int getValue() {  
        return weightedValue;  
    }  
}
```

A now we have a deterministic unit test in isolation.

But...when we want to test calculating the total, we don't want to call the REAL die's roll method.

So...we use a FakeDie, via constructor injection.



```
@Test  
void rollSumsUpCorrectly() {  
    FakeDie fakeDie = new FakeDie(ARBITRARY_FAKE_ROLL, ARBITRARY_NUM_SIDES);  
    List<Die> diceToInject = new ArrayList<Die>();  
    diceToInject.add(fakeDie);  
    diceToInject.add(fakeDie);  
  
    testObj = new DieCup(diceToInject);  
    int value = testObj.roll();  
  
    assertEquals(ARBITRARY_FAKE_ROLL * 2, value);  
}
```

Let's CODE!