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| BDD |
| Behavior Driven Development |
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# BDD

## Objectives

After completing this lab, you should be able to put yourself into a “BDD”midnset.

## Getting Started

In this lab you’ll be doing the bowling kata again, but this time with a BDD mindset. Use **one** of three approaches.

1. Use Machine Specifications (download from <http://teamcity.codebetter.com/guestAuth/repository/download/bt44/.lastSuccessful/Machine.Specifications-Release.zip>)
2. Use SpecFlow (download from <http://www.specflow.org/downloads/installer.aspx>)
3. Use a custom base class with MSTest (your test class will derive from SpecificationContext, orderride Given and When, then use TestMethods to implement the various “then” scenarios.

public abstract class SpecificationContext  
{  
    [TestInitialize]  
    public void Init()  
    {  
        this.Given();  
        this.When();  
    }  
  
    public virtual void Given(){}  
    public virtual void When(){}  
}

If you chose to go with SpecFlow, your feature tests might look like the following:

Feature: Scoring

*In order to know how well I did*

*As a bowler*

*I want to know the score of my game*

Scenario: Gutter balls

Given I have rolled 20 times and knocked down 0 pins

When I ask for my score

Then the result should be 0

Scenario: All 1s

Given I have rolled 20 times and knocked down 1 pin

When I ask for my score

Then the result should be 20

Scenario: A spare

Given I have rolled 1 time and knocked down 5 pins

    And I have rolled 1 time and knocked down 5 pins

    And I have rolled 1 time and knocked down 5 pins

    And I have rolled 17 times and knocked down 0 pins

When I ask for my score

Then the result should be 20

Scenario: A strike

    Given I have rolled 1 time and knocked down 10 pins

    And I have rolled 1 time and knocked down 5 pins

    And I have rolled 17 times and knocked down 0 pins

    When I ask for my score

    Then the result should be 20

Scenario: Perfect game

    Given I have rolled 12 times and knocked down 10 pins

    When I ask for my score

    Then the result should be 300

When you finish the lab, compare with your results from the previous Bowling Kata. Did you feel the experience was better or worse?