Assessment 5 – Unit Tests

Objective

Use what you have learned this week to write a suite of unit tests for a set of pre-written methods.

Application Overview

There are 3 methods included with the starter code:

Rock Paper Scissors

A basic method that takes two strings as arguments and returns a string for the outcome based on the given arguments. You may assume input is always either "rock", "paper", or "scissors.

SortNums

Given a list of ints, sorts the list. You may assume that the list is no larger than 5 items.

IsTheSunUp

Given a TimeSpan representing the time of day, returns either true or false if the sun is up at that time. For simplicity, you may assume that the sun rises at exactly 8am (inclusive) and sets at exactly 8pm (exclusive). For more info on TimeSpan, go here:
https://docs.microsoft.com/en-us/dotnet/api/system.timespan?view=net-5.0

Cloning the Repository

Clone the repo from https://git.rockfin.com/dev-build/UnitTesting

*Note: Once you have cloned the repo you will need to open your command line from the folder and insert the following git command: **rm -rf .git***

This disconnects the repo from its original remote so you can push it to a repo of your choice.

Build Specifications

Set up a XUnit Test project to write your unit tests. Make sure to add a reference to the main program. You can find the XUnit documentation here: https://xunit.net/

You should be using relevant class and method names for your unit tests. Separate your tests into classes for each method. Avoid using unclear names like UnitTest1, Test, etc.

Write unit tests for each of the 3 given methods. Your tests should be comprehensive and at minimum cover each outcome within the method and potential edge cases. You should not need more than 10 tests for each of the methods.

The methods within the starter code are correct and you may not modify the given file. Normally, well thought out unit tests would expose bugs within the program, but for the case of this assessment, your unit tests should all pass upon submission.