

I. GitHub

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File	Commit Message	Time Ago
Graphics	Created an organized "Graphics" folder and *began* code clean up	2 days ago
.DS_Store	changes on changes	a day ago
ButtonTestFromClassExample	Create ButtonTestFromClassExample	18 days ago
Calculations.class	asdf	14 days ago
Calculations.java	added comments	2 days ago
CalculationsTest.java	added some new files	2 days ago
Die.class	asdf	14 days ago
Die.java	added comments	2 days ago
DieTest.java	added new file	13 days ago
FinalReport.pdf	Final Report & Presentation pending your review	a day ago
GUMen'sBasketballYahtzeeBusine...	BFM & Func. Requirements for turn in on 28 March 2018	a month ago
GUMen'sBasketballYahtzeeDesign...	additions & updates	18 days ago
GUMen'sBasketballYahtzeeGroup...	code & project plan updated	3 days ago
GUMen'sBasketballYahtzeeRules....	Minor adjustments to the rules & scorecard	a month ago
GUMen'sBasketballYahtzeeTestPl...	additions & updates	18 days ago
GUMen'sBasketballYahtzeeUserE...	added ScorecardScreenshot.png	13 days ago
Player.class	asdf	14 days ago
Player.java	added comments	2 days ago
PlayerTest.java	added some new files	2 days ago
Presentation.pdf	Final Report & Presentation pending your review	a day ago
README.md	Update README.md	27 days ago
ScreenshotJUnitTest.docx	added some new files	2 days ago
UMLClassDiagram.pdf	changes on changes	a day ago
UMLSequenceDiagram.pdf	finalized & renamed the UML Sequence Diagram	2 days ago
UMLSequenceDiagram.xml	finalized & renamed the UML Sequence Diagram	2 days ago
YahtzeeGUI.class	figured out button	14 days ago
YahtzeeGUI.java	changes on changes	a day ago
YahtzeeGUIUML.xml	Add files via upload	2 days ago
leaderboard.txt	asdf	20 days ago
yahtzee.class	asdf	14 days ago
yahtzee.java	added comments	2 days ago
yahtzeeUML.xml	Update yahtzeeUML.xml	26 days ago

II. JUnit

A. DieTest.java

```
package yahtzee;

import static org.junit.jupiter.api.Assertions.*;

import org.junit.jupiter.api.AfterAll;
import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeAll;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;

class DieTest {

    @Test
    void test() {
        Die testDie = new Die();
        testDie.roll();
        assertEquals(8, testDie.getValue(), 7);

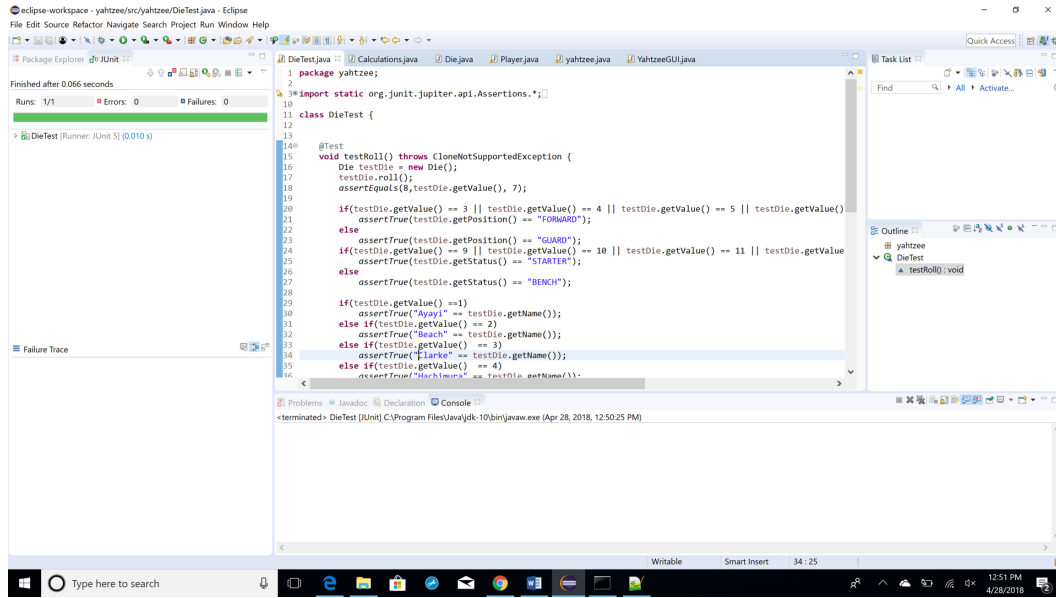
        if(testDie.getValue() == 3 || testDie.getValue() == 4 || testDie.getValue() == 5 ||
        testDie.getValue() == 7 || testDie.getValue() == 13 || testDie.getValue() == 15)
            assertTrue(testDie.getPosition() == "FORWARD");
        else
            assertTrue(testDie.getPosition() == "GUARD");

        if(testDie.getValue() == 9 || testDie.getValue() == 10 || testDie.getValue() == 11 ||
        testDie.getValue() == 13 || testDie.getValue() == 15)
            assertTrue(testDie.getStatus() == "STARTER");
        else
            assertTrue(testDie.getStatus() == "BENCH");

        if(testDie.getValue() == 1)
            assertTrue("Joel Ayayi" == testDie.getName());
        else if(testDie.getValue() == 2)
            assertTrue("Jack Beach" == testDie.getName());
        else if(testDie.getValue() == 3)
            assertTrue("Brandon Clarke" == testDie.getName());
        else if(testDie.getValue() == 4)
            assertTrue("Rui Hachimura" == testDie.getName());
        else if(testDie.getValue() == 5)
            assertTrue("Jeremy Jones" == testDie.getName());
        else if(testDie.getValue() == 6)
            assertTrue("Corey Kispert" == testDie.getName());
        else if(testDie.getValue() == 7)
            assertTrue("Jacob Larson" == testDie.getName());
        else if(testDie.getValue() == 8)
            assertTrue("Alex Martin" == testDie.getName());
        else if(testDie.getValue() == 9)
            assertTrue("Silas Melson" == testDie.getName());
        else if(testDie.getValue() == 10)
            assertTrue("Zach Norvell Jr." == testDie.getName());
        else if(testDie.getValue() == 11)
            assertTrue("Josh Perkins" == testDie.getName());
        else if(testDie.getValue() == 12)
            assertTrue("Brian Pete" == testDie.getName());
        else if(testDie.getValue() == 13)
            assertTrue("Killian Tillie" == testDie.getName());
        else if(testDie.getValue() == 14)
            assertTrue("Jesse Wade" == testDie.getName());
        else if(testDie.getValue() == 15)
            assertTrue("Jonathan Williams" == testDie.getName());

    }

}
```



B. PlayerTest.java (Code is on three pages.)

```

package yahtzee;

import static org.junit.jupiter.api.Assertions.*;

import org.junit.Assert;
import org.junit.Test;

public class PlayerTest {

    @Test
    public void testPlayersetup() {
        Player testPlayer = new Player();

        Assert.assertNotNull(testPlayer.hand);
        assertEquals(testPlayer.numberRows, 22);
        assertEquals(testPlayer.bonusLine, 22);
        assertEquals(testPlayer.scoringCard.length, testPlayer.numberRows);
        assertEquals(testPlayer.canPlaceScoreCard.length, testPlayer.numberRows);
        assertEquals(testPlayer.athleteNames.length, Die.numberofSides);

        for(int i = 0; i < testPlayer.numberRows; i++)
        {
            assert(testPlayer.scoringCard[i] == 0);
            assert(testPlayer.canPlaceScoreCard[i] == true);
        }

        assert(testPlayer.athleteNames[0] == "Joel Ayayi");
        assert(testPlayer.athleteNames[1] == "Jack Beach");
        assert(testPlayer.athleteNames[2] == "Brandon Clarke");
        assert(testPlayer.athleteNames[3] == "Rui Hachimura");
        assert(testPlayer.athleteNames[4] == "Jeremy Jones");
        assert(testPlayer.athleteNames[5] == "Corey Kispert");
        assert(testPlayer.athleteNames[6] == "Jacob Larson");
        assert(testPlayer.athleteNames[7] == "Alex Martin");
        assert(testPlayer.athleteNames[8] == "Silas Melson");
        assert(testPlayer.athleteNames[9] == "Zach Norvell Jr.");
        assert(testPlayer.athleteNames[10] == "Josh Perkins");
        assert(testPlayer.athleteNames[11] == "Brian Pete");
        assert(testPlayer.athleteNames[12] == "Killian Tillie");
    }
}

```

```

assert(testPlayer.athleteNames[13] == "Jesse Wade");
assert(testPlayer.athleteNames[14] == "Jonathan Williams");
}
@Test
public void testPlayerName() {
    Player testPlayer = new Player();
    testPlayer.setName("bob");
    assert("bob" == testPlayer.getName());
}

@Test
public void canPrintTest() {
    Player testPlayer = new Player();

    assert(testPlayer.canPrint(5) == true);

    testPlayer.scoringCard[5] = 50;
    testPlayer.canPlaceScoreCard[5] = false;

    assert(testPlayer.canPrint(5) == false);
}

@Test
public void totalValueTest() {
    Player testPlayer = new Player();

    assert(testPlayer.totalValue() == 0);
    testPlayer.scoringCard[0] = 10;
    testPlayer.canPlaceScoreCard[0] = false;
    assert(testPlayer.totalValue() == 10);

    testPlayer.scoringCard[1] = 10;
    testPlayer.canPlaceScoreCard[1] = false;
    assert(testPlayer.totalValue() == 20);

    testPlayer.scoringCard[2] = 10;
    testPlayer.canPlaceScoreCard[2] = false;
    assert(testPlayer.totalValue() == 30);

    testPlayer.scoringCard[3] = 10;
    testPlayer.canPlaceScoreCard[3] = false;
    assert(testPlayer.totalValue() == 40);

    testPlayer.scoringCard[4] = 10;
    testPlayer.canPlaceScoreCard[4] = false;
    assert(testPlayer.totalValue() == 50);

    testPlayer.scoringCard[5] = 10;
    testPlayer.canPlaceScoreCard[5] = false;
    assert(testPlayer.totalValue() == 60);

    testPlayer.scoringCard[6] = 10;
    testPlayer.canPlaceScoreCard[6] = false;
    assert(testPlayer.totalValue() == 70);

    testPlayer.scoringCard[7] = 10;
    testPlayer.canPlaceScoreCard[7] = false;
    assert(testPlayer.totalValue() == 80);

    testPlayer.scoringCard[8] = 10;
    testPlayer.canPlaceScoreCard[8] = false;
    assert(testPlayer.totalValue() == 90);

    testPlayer.scoringCard[9] = 10;
    testPlayer.canPlaceScoreCard[9] = false;
    assert(testPlayer.sumBonus() == 35);
    assert(testPlayer.totalValue() == 135);
}

```

```

@Test
public void getCurrentScoreTest() {
    Player testPlayer = new Player();

    assert(testPlayer.getCurrentScore() == 0);
    testPlayer.scoringCard[0] = 10;
    testPlayer.canPlaceScoreCard[0] = false;
    assert(testPlayer.getCurrentScore() == 10);

    testPlayer.scoringCard[1] = 10;
    testPlayer.canPlaceScoreCard[1] = false;
    assert(testPlayer.getCurrentScore() == 20);

    testPlayer.scoringCard[2] = 10;
    testPlayer.canPlaceScoreCard[2] = false;
    assert(testPlayer.getCurrentScore() == 30);

    testPlayer.scoringCard[3] = 10;
    testPlayer.canPlaceScoreCard[3] = false;
    assert(testPlayer.getCurrentScore() == 40);

    testPlayer.scoringCard[4] = 10;
    testPlayer.canPlaceScoreCard[4] = false;
    assert(testPlayer.getCurrentScore() == 50);

    testPlayer.scoringCard[5] = 10;
    testPlayer.canPlaceScoreCard[5] = false;
    assert(testPlayer.getCurrentScore() == 60);

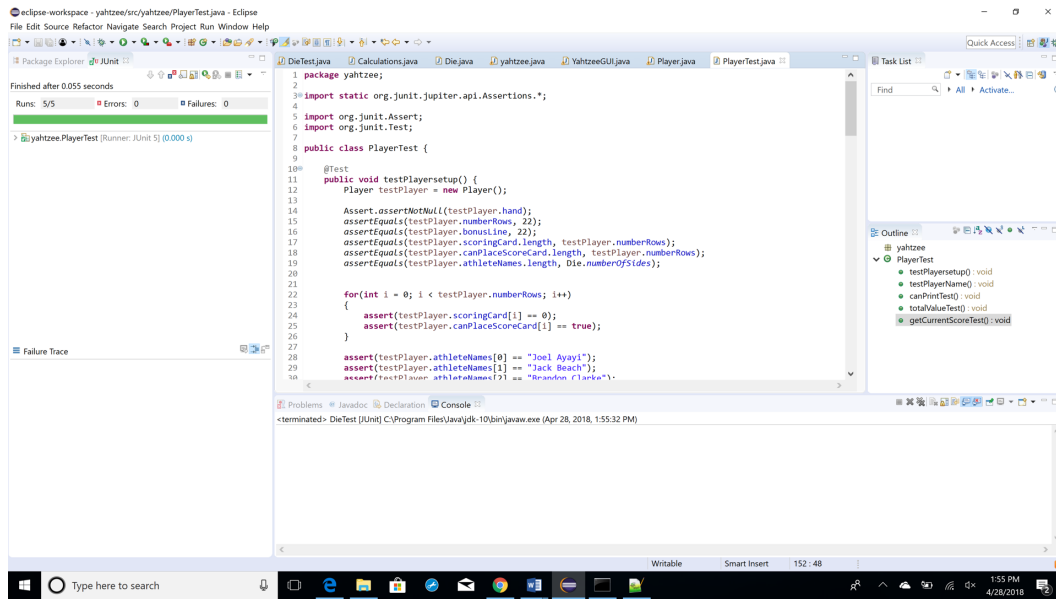
    testPlayer.scoringCard[6] = 10;
    testPlayer.canPlaceScoreCard[6] = false;
    assert(testPlayer.getCurrentScore() == 70);

    testPlayer.scoringCard[7] = 10;
    testPlayer.canPlaceScoreCard[7] = false;
    assert(testPlayer.getCurrentScore() == 80);

    testPlayer.scoringCard[8] = 10;
    testPlayer.canPlaceScoreCard[8] = false;
    assert(testPlayer.getCurrentScore() == 90);

    testPlayer.scoringCard[9] = 10;
    testPlayer.canPlaceScoreCard[9] = false;
    //Bonus not included until the very end
    assert(testPlayer.getCurrentScore() == 100);
}
}

```



C. CalculationsTest.java (Code is on four pages.)

```
package yahtzee;

import static org.junit.jupiter.api.Assertions.*;

import java.util.ArrayList;

import org.junit.Assert;
import org.junit.Test;

public class CalculationsTest {

    @Test
    public void maxOfAZagFoundTest()
    {
        ArrayList<Die> hand = new ArrayList<Die>();

        assert(Calculations.maxOfAZagFound(hand) == 0);
        Die die0 = new Die();
        die0.jerseyNumber = 1;
        hand.add(0, die0);
        assert(Calculations.maxOfAZagFound(hand) == 1);

        Die die1 = new Die();
        die1.jerseyNumber = 1;
        hand.add(1, die1);
        assert(Calculations.maxOfAZagFound(hand) == 2);

        Die die2 = new Die();
        die2.jerseyNumber = 1;
        hand.add(2, die2);
        assert(Calculations.maxOfAZagFound(hand) == 3);

        Die die3 = new Die();
        die3.jerseyNumber = 1;
        hand.add(3, die3);
        assert(Calculations.maxOfAZagFound(hand) == 4);
    }
}
```

```

        Die die4 = new Die();
        die4.jerseyNumber = 1;
        hand.add(4, die4);
        assert(Calculations.maxOfAZagFound(hand) == 5);
    }

    @Test
    public void totalAllDiceTest()
    {
        ArrayList<Die> hand = new ArrayList<Die>();

        assert(Calculations.totalAllDice(hand) == 0);
        Die die0 = new Die();
        die0.jerseyNumber = 1;
        hand.add(0, die0);
        assert(Calculations.totalAllDice(hand) == 1);

        Die die1 = new Die();
        die1.jerseyNumber = 5;
        hand.add(1, die1);
        assert(Calculations.totalAllDice(hand) == 6);

        Die die2 = new Die();
        die2.jerseyNumber = 10;
        hand.add(2, die2);
        assert(Calculations.totalAllDice(hand) == 16);

        Die die3 = new Die();
        die3.jerseyNumber = 14;
        hand.add(3, die3);
        assert(Calculations.totalAllDice(hand) == 30);

        Die die4 = new Die();
        die4.jerseyNumber = 1;
        hand.add(4, die4);
        assert(Calculations.totalAllDice(hand) == 31);
    }

    @Test
    public void fullTeamFoundTest()
    {
        ArrayList<Die> hand = new ArrayList<Die>();

        assert(Calculations.fullTeamFound(hand) == false);
        Die die0 = new Die();
        die0.jerseyNumber = 3;
        rollDie(die0);
        hand.add(0, die0);
        assert(Calculations.fullTeamFound(hand) == false);

        Die die1 = new Die();
        die1.jerseyNumber = 4;
        rollDie(die1);
        hand.add(1, die1);
        assert(Calculations.fullTeamFound(hand) == false);

        Die die2 = new Die();
        die2.jerseyNumber = 10;
        rollDie(die2);
        hand.add(2, die2);
        assert(Calculations.fullTeamFound(hand) == false);

        Die die3 = new Die();
        die3.jerseyNumber = 9;
        rollDie(die3);
        hand.add(3, die3);
        assert(Calculations.fullTeamFound(hand) == false);

        Die die4 = new Die();
        die4.jerseyNumber = 5;
        rollDie(die4);
        hand.add(4, die4);
        assert(Calculations.fullTeamFound(hand) == false);
    }

```

```

        die4.jerseyNumber = 11;
        rollDie(die4);
        hand.set(4, die4);
        assert(Calculations.fullTeamFound(hand) == true);
    }

    public void benchBrigadeFoundTest()
    {
        ArrayList<Die> hand = new ArrayList<Die>();

        assert(Calculations.benchBrigadeFound(hand) == false);
        Die die0 = new Die();
        die0.jerseyNumber = 1;
        rollDie(die0);
        hand.add(0, die0);
        assert(Calculations.benchBrigadeFound(hand) == false);

        Die die1 = new Die();
        die1.jerseyNumber = 2;
        rollDie(die1);
        hand.add(1, die1);
        assert(Calculations.benchBrigadeFound(hand) == false);

        Die die2 = new Die();
        die2.jerseyNumber = 3;
        rollDie(die2);
        hand.add(2, die2);
        assert(Calculations.benchBrigadeFound(hand) == false);

        Die die3 = new Die();
        die3.jerseyNumber = 4;
        rollDie(die3);
        hand.add(3, die3);
        assert(Calculations.benchBrigadeFound(hand) == false);

        Die die4 = new Die();
        die4.jerseyNumber = 10;
        rollDie(die4);
        hand.add(4, die4);
        assert(Calculations.benchBrigadeFound(hand) == false);

        die4.jerseyNumber = 5;
        rollDie(die4);
        hand.set(4, die4);
        assert(Calculations.benchBrigadeFound(hand) == true);
    }

    public void startingLineupFoundTest()
    {
        ArrayList<Die> hand = new ArrayList<Die>();

        assert(Calculations.benchBrigadeFound(hand) == false);
        Die die0 = new Die();
        die0.jerseyNumber = 9;
        rollDie(die0);
        hand.add(0, die0);
        assert(Calculations.startingLineupFound(hand) == false);

        Die die1 = new Die();
        die1.jerseyNumber = 10;
        rollDie(die1);
        hand.add(1, die1);
        assert(Calculations.startingLineupFound(hand) == false);

        Die die2 = new Die();
        die2.jerseyNumber = 11;
        rollDie(die2);
        hand.add(2, die2);
        assert(Calculations.startingLineupFound(hand) == false);
    }

```



```

        Die die3 = new Die();
        die3.jerseyNumber = 13;
        rollDie(die3);
        hand.add(3, die3);
        assert(Calculations.startingLineupFound(hand) == false);

        Die die4 = new Die();
        die4.jerseyNumber = 8;
        rollDie(die4);
        hand.add(4, die4);
        assert(Calculations.startingLineupFound(hand) == false);

        die4.jerseyNumber = 15;
        rollDie(die4);
        hand.set(4, die4);
        assert(Calculations.startingLineupFound(hand) == true);
    }

    public static Die rollDie()
    {
        Die newDie = new Die();
        newDie.roll();
        return newDie;
    }

    public void rollDie(Die die){
        if(die.jerseyNumber == 3 || die.jerseyNumber == 4 || die.jerseyNumber == 5 ||
           die.jerseyNumber == 7 || die.jerseyNumber == 13 || die.jerseyNumber == 15)
            die.position = "FORWARD";
        else
            die.position = "GUARD";

        if(die.jerseyNumber == 9 || die.jerseyNumber == 10 || die.jerseyNumber == 11 ||
           die.jerseyNumber == 13 || die.jerseyNumber == 15)
            die.status = "STARTER";
        else
            die.status = "BENCH";

        if(die.jerseyNumber == 1)
            die.name = "Ayayi";
        else if(die.jerseyNumber == 2)
            die.name = "Beach";
        else if(die.jerseyNumber == 3)
            die.name = "Clarke";
        else if(die.jerseyNumber == 4)
            die.name = "Hachimura";
        else if(die.jerseyNumber == 5)
            die.name = "Jones";
        else if(die.jerseyNumber == 6)
            die.name = "Kispert";
        else if(die.jerseyNumber == 7)
            die.name = "Larsen";
        else if(die.jerseyNumber == 8)
            die.name = "Martin";
        else if(die.jerseyNumber == 9)
            die.name = "Melson";
        else if(die.jerseyNumber == 10)
            die.name = "Norvell";
        else if(die.jerseyNumber == 11)
            die.name = "Perkins";
        else if(die.jerseyNumber == 12)
            die.name = "Pete";
        else if(die.jerseyNumber == 13)
            die.name = "Tillie";
        else if(die.jerseyNumber == 14)
            die.name = "Wade";
        else
            die.name = "Williams";
    }
}

```

