

System Test Plan:

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Introduction (anything that is true for all test cases and not specified in each test case):

Because a full game would take up one page or more, some test cases, such as testTie, assume the last round has concluded without giving the user input of 1+ rounds.

Test Notes :

For seed 1, 1st 3 rounds of passcodes for Player 1 – YOGB, ORBG, POBR. For Player 2 – BRGY, YROG, OPGY.

For seed 6, 1st 3 rounds of passcodes for Player 1 – , GRBP, PYRO, BGOY. For Player 2 – OPGB, ORGY, POGY.

Test Cases

Test ID	Description	Expected Results	Actual Results
testWelcome Author: Lyndsay Barnes	\$java -cp bin TheOriginalWord le 1 (Ctrl+C to stop execution)	Welcome to The Original Wordle! A game of logic, with a bit of chance. HOW TO PLAY [prints game instructions] This game is for 2 players. Player 1 name?	Welcome to The Original Wordle! A game of logic, with a bit of chance. HOW TO PLAY [prints game instructions] This game is for 2 players. Player 1 name?

<p>testGameSetUp</p> <p>Author: Lyndsay Barnes</p>	<p>\$java -cp bin TheOriginalWordle 1</p> <p>[Welcome and game instructions]</p> <p>This game is for 2 players. Player 1 name? Player1 Player 2 name? Player2</p> <p>Number of rounds? 1</p>	<p>Great! codes have been initialized for both players. Lets begin.</p> <p>Note : guess format must be 4 characters, no spaces included and no duplicated e.g. BOYG</p> <p>[Round 1, Guess 1] Total Points for Player1 : 0 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) :</p>	<p>Great! codes have been initialized for both players. Lets begin.</p> <p>Note : guess format must be 4 characters, no spaces included and no duplicated e.g. BOYG</p> <p>[Round 1, Guess 1] Total Points for Player1 : 0 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) :</p>
<p>testVisualDisplay</p> <p>Author: Lyndsay Barnes</p>	<p>\$java -cp bin TheOriginalWordle 1</p> <p>[continuation of testGameSetUp]</p> <p>[Round 1, Guess 1] Total Points for Player1 : 0 Player1, please</p>	<p>[R, G, B, Y, w, w, w,]</p> <p>[Round 1, Guess 2] Total Points for Player1: 1 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):</p>	<p>[R, G, B, Y, w, w, w,]</p> <p>[Round 1, Guess 2] Total Points for Player1: 1 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):</p>

	enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple) : RGBY		
testPlayer1CorrectGuess Author: Lyndsay Barnes	[continuation of testGameSetUp] [Round 1, Guess 1] Total Points for Player1 : 0 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple) : YOGB	[Y, O, G, B, b, b, b, b] Congratulations, Player1! You have guessed the code! Player2, it is now your turn to play. [Round 1, Guess 1] Total Points for Player2: 0 Player2, please enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple):	[Y, O, G, B, b, b, b, b] Congratulations, Player1! You have guessed the code! Player2, it is now your turn to play. [Round 1, Guess 1] Total Points for Player2: 0 Player2, please enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple):
testPlayer1InvalidGuess Author : Will Greene	[continuation of testGameSetUp] [Round 1, Guess 1] Total Points for Player1 : 0 Player1, please enter guess (R-ed, Y-ellow,	Note: guess format must be 4 characters, no spaces included and no duplicates e.g. BOYG [Round 1, Guess 1] Total Points for Player1: 0 Player1, please enter guess (R-ed,	Note: guess format must be 4 characters, no spaces included and no duplicates e.g. BOYG [Round 1, Guess 1] Total Points for Player1: 0 Player1, please enter guess (R-ed,

	B-lue, G-reen, O-range, P-urple) : BGXG	Y-ellow, B-lue, G-reen, O-range, P-urple):	Y-ellow, B-lue, G-reen, O-range, P-urple):
testPlayer2InvalidGuess Author : Will Greene	[continuation of testPlayer1CorrectGuess] [Round 1, Guess 1] Total Points for Player2: 0 Player2, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple): Player 2 Guess 1: YYGX	Note: guess format must be 4 characters, no spaces included and no duplicates e.g. BOYG [Round 1, Guess 1] Total Points for Player2: 0 Player2, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	Note: guess format must be 4 characters, no spaces included and no duplicates e.g. BOYG [Round 1, Guess 1] Total Points for Player2: 0 Player2, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):
testPlayer1NameTooLong	[Continuation of testWelcome]	Name too long - max 50 characters Player 1 name?	Name too long - max 50 characters Player 1 name?

Author : Will Greene	This game is for 2 players. Player 1 name? This name is too long. This name is too long. This name is too long.		
testPlayer2NameTooLong Author : Will Greene	[Continuation of testWelcome] This game is for 2 players. Player 1 name? Alexa Player 2 name? This name is too long. This name is too long. This name is too long.	Name too long - max 50 characters Player 2 name?	Name too long - max 50 characters Player 2 name?
testPlayer1Wins Author : Will	[continuation of testPlayer1CorrectGuess]	[B, R, G, Y, b, b, b, b] [B, R, G, P, b, b, b,] Congratulations, Player2! You have	[B, R, G, Y, b, b, b, b] [B, R, G, P, b, b, b,] Congratulations, Player2! You have

Greene	Player2: [Round 1, Guess 1] : BRGP [Round 1, Guess 2]: BRGY	guessed the code! Totals Player1: 1 points Player2: 2 points Congratulations, Player1! You are the winner! Play again (Y-es, Q-uit)?	guessed the code! Totals Player1: 1 points Player2: 2 points Congratulations, Player1! You are the winner! Play again (Y-es, Q-uit)?
testPlayer2Wins Author : Will Greene	[continuation of testGameSetUp] Player1: [Round 1, Guess 1] : YOBG [Round 1, Guess 2] : YOGB Player2: [Round 1, Guess 1] : BRGY	Totals: Player1: 2 points Player2: 1 points Congratulations, Player2! You are the winner! Play again (Y-es, Q-uit)?	Totals: Player1: 2 points Player2: 1 points Congratulations, Player2! You are the winner! Play again (Y-es, Q-uit)?
testTie Author : Will Greene	[continuation of testPlayer1CorrectGuess] Player2: [Round 1, Guess 1]: BRGY	Totals: Player1 : 1 points Player2 : 1 points Oh no! It's a tie! Try playing again to settle the tiebreak.	Totals: Player1 : 1 points Player2 : 1 points Oh no! It's a tie! Try playing again to settle the tiebreak.

		Play again (Y-es, Q-uit)?	Play again (Y-es, Q-uit)?
testInvalidRoundsZero Author : Will Greene	<i>Preconditions:</i> Game Started Player names assigned Number of rounds? 0	Invalid number of rounds. Please enter an integer between 1 and 10, inclusive. Number of rounds?	Invalid number of rounds. Please enter an integer between 1 and 10, inclusive. Number of rounds?
testValidRoundsFive Author : Will Greene	<i>Preconditions:</i> Game Started Player names assigned Number of rounds? 5	Great! 4-color codes have been initialized for both players. Let's begin. [Round 1, Guess 1] Total Points for Player1 : 0 Player 1, please enter guess (R-ed, G-reen, B-lue, Y-ellow, O-range, P-urple) :	Great! 4-color codes have been initialized for both players. Let's begin. [Round 1, Guess 1] Total Points for Player1 : 0 Player 1, please enter guess (R-ed, G-reen, B-lue, Y-ellow, O-range, P-urple) :
testValidRoundsTen Author : Will Greene	<i>Preconditions:</i> Game Started Player names assigned Number of	Great! 4-color codes have been initialized for both players. Let's begin. [Round 1, Guess 1] Total Points for Player1 : 0	Great! 4-color codes have been initialized for both players. Let's begin. [Round 1, Guess 1] Total Points for Player1 : 0

	rounds? 10	Player 1, please enter guess (R-ed, G-reen, B-lue, Y-ellow, O-range, P-urple) :	Player 1, please enter guess (R-ed, G-reen, B-lue, Y-ellow, O-range, P-urple) :
testInvalidRoundsEleven Author : Will Greene	<i>Preconditions:</i> Game Started Player names assigned Number of rounds? 11	Invalid number of rounds. Please enter an integer between 1 and 10, inclusive. Number of rounds?	Invalid number of rounds. Please enter an integer between 1 and 10, inclusive. Number of rounds?
testPlayAgain Author : Will Greene	[continuations of testPlayer1Wins] Play again (Y-es, Q-uit)? Y	[Round 1, Guess 1] Total Points for Player1 : 0 Player 1, please enter guess (R-ed, G-reen, B-lue, Y-ellow, O-range, P-urple) :	[Round 1, Guess 1] Total Points for Player1 : 0 Player 1, please enter guess (R-ed, G-reen, B-lue, Y-ellow, O-range, P-urple) :
testQuit Author : Will Greene	<i>Preconditions :</i> Last round completed. Play again (Y-es, Q-uit)? Q	Program exits.	Program exits.

testInvalidPlay AgainInput Author : Will Greene	<i>Preconditions :</i> Last round completed. Play again (Y-es, Q-uit)? u	Invalid input. Play again (Y-es, Q-uit)?”	Invalid input. Play again (Y-es, Q-uit)?”
testValidPoints Player2Round1 Guess2 Author: Casey Beise	<i>Preconditions:</i> \$java -cp bin TheOriginalWord le 6 [continuation Player1 finished round 1] [Round 1, Guess 1] Total Points for Player1 : 0 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple)	[O, P, Y, G, b, b, w ,] [Round 1, Guess 2] Total Points for Player2 : 1 Player2, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	[O, P, Y, G, b, b, w ,] [Round 1, Guess 2] Total Points for Player2 : 1 Player2, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):

	: OPYG		
testValidPoints Player1Round1 Guess8 Author: Casey Beise	<i>Preconditions:</i> \$java -cp bin TheOriginalWord le 1 [continuation Player1 round 1] [Round 1, Guess 7] Total Points for Player1 : 6 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) : RGYO	[R, G, Y, O, w, w, w,] [O, P, R, G, w, w, ,] [O, R, B, G, w, w, w,] [O, R, Y, P, w, w, ,] [P, R, Y, O, w, w, ,] [Y, G, R, B, b, b, w,] [R, G, B, Y, w, w, w,] [Round 1, Guess 8] Total Points for Player1: 7 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	[R, G, Y, O, w, w, w,] [O, P, R, G, w, w, ,] [O, R, B, G, w, w, w,] [O, R, Y, P, w, w, ,] [P, R, Y, O, w, w, ,] [Y, G, R, B, b, b, w,] [R, G, B, Y, w, w, w,] [Round 1, Guess 8] Total Points for Player1: 7 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):
testNotGuesse dStatementPla yer1Round1No CorrectGuesse s Author: Casey Beise	<i>Preconditions:</i> \$java -cp bin TheOriginalWord le 1 [continuation Player1 round 1] [Round 1, Guess 8] Total Points for Player1 : 7	[R, P, Y, O, w, w, ,] [R, G, Y, O, w, w, w,] [O, P, R, G, w, w, ,] [O, R, B, G, w, w, w,] [O, R, Y, P, w, w, ,] [P, R, Y, O, w, w, ,] [Y, G, R, B, b, b, w,] [R, G, B, Y, w, w, w,] Player1, you did not guess the passcode in 8 guesses.	[R, P, Y, O, w, w, ,] [R, G, Y, O, w, w, w,] [O, P, R, G, w, w, ,] [O, R, B, G, w, w, w,] [O, R, Y, P, w, w, ,] [P, R, Y, O, w, w, ,] [Y, G, R, B, b, b, w,] [R, G, B, Y, w, w, w,] Player1, you did not guess the passcode in 8 guesses.

	Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple): RPYO	Player2, it is now your turn to play.	Player2, it is now your turn to play.
testEndOfRoundSummaryNeitherPlayerGuessedCode Author: Casey Beise	<i>Preconditions:</i> \$java -cp bin TheOriginalWordle 6 [continuation of round 1, neither player guessed the code in 8 guesses] Player2, you did not guess the passcode in 8 guesses.	Totals Player1 : 10 points Player2 : 10 points New codes have been initialized for both players. Let's begin [Round 2]	Totals Player1 : 10 points Player2 : 10 points New codes have been initialized for both players. Let's begin [Round 2]
testZeroBlackTwoWhite Author : Lyndsay Barnes	\$java -cp bin TheOriginalWordle 1 [continuation of testGameSetUp] [Round 1, Guess	[G, Y, R, P, w, w, ,] [Round 1, Guess 2] Total Points for Player1: 1 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	[G, Y, R, P, w, w, ,] [Round 1, Guess 2] Total Points for Player1: 1 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):

	1] Total Points for Player1 : 0 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) : GYRP		
testZeroBlackThreWhite Author : Lyndsay Barnes	[continuation of testZeroBlackTwoWhite] [Round 1, Guess 2] Total Points for Player1 : 0 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) : BYPO	[B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 3] Total Points for Player1: 2 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	[B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 3] Total Points for Player1: 2 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):
testZeroBlackFourWhite Author : Lyndsay Barnes	[continuation of testZeroBlackThreeWhite] [Round 1, Guess 3] Total Points for Player1 : 2 Player1, please	[G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 4] Total Points for Player1: 3 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range,	[G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 4] Total Points for Player1: 3 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range,

	enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) : GBYO	P-urple):	P-urple):
testOneBlackOneWhite Author : Lyndsay Barnes	[continuation of testZerBlackFour White] [Round 1, Guess 4] Total Points for Player1 : 3 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) : BOPR	[B, O, P, R, b, w, ,] [G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 5] Total Points for Player1: 4 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	[B, O, P, R, b, w, ,] [G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 5] Total Points for Player1: 4 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):
testOneBlackTwoWhite Author : Lyndsay Barnes	[continuation of testOneBlackOne White] [Round 1, Guess 5] Total Points for Player1 : 4 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) : GYRB	[G, Y, R, B, b, w, w,] [B, O, P, R, b, w, ,] [G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 6] Total Points for Player1: 5 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	[G, Y, R, B, b, w, w,] [B, O, P, R, b, w, ,] [G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 6] Total Points for Player1: 5 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):

testOneBlackThreeWhite Author : Lyndsay Barnes	[continuation of testOneBlackTwo White] [Round 1, Guess 6] Total Points for Player1 : 5 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) : OBGY	[O, B, G, Y, b, w, w, w] [G, Y, R, B, b, w, w,] [B, O, P, R, b, w, ,] [G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 7] Total Points for Player1: 6 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	[O, B, G, Y, b, w, w, w] [G, Y, R, B, b, w, w,] [B, O, P, R, b, w, ,] [G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 7] Total Points for Player1: 6 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):
testTwoBlackZeroWhite Author : Lyndsay Barnes	[continuation of testOneBlackThreeWhite] [Round 1, Guess 7] Total Points for Player1 : 6 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) : YORP	[Y, O, R, P, b, b, ,] [O, B, G, Y, b, w, w, w] [G, Y, R, B, b, w, w,] [B, O, P, R, b, w, ,] [G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 8] Total Points for Player1: 7 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	[Y, O, R, P, b, b, ,] [O, B, G, Y, b, w, w, w] [G, Y, R, B, b, w, w,] [B, O, P, R, b, w, ,] [G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,] [Round 1, Guess 8] Total Points for Player1: 7 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):
testTwoBlackOneWhite Author : Lyndsay Barnes	[continuation of testTwoBlackZeroWhite] [Round 1, Guess	[O, R, G, B, b, b, w,] [Y, O, R, P, b, b, ,] [O, B, G, Y, b, w, w, w] [G, Y, R, B, b, w, w,] [B, O, P, R, b, w, ,]	[O, R, G, B, b, b, w,] [Y, O, R, P, b, b, ,] [O, B, G, Y, b, w, w, w] [G, Y, R, B, b, w, w,] [B, O, P, R, b, w, ,]

	<p>1] Total Points for Player1 : 0</p> <p>Player1, please enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple)</p> <p>: ORGB</p>	<p>[G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,]</p> <p>Player1, you did not guess the passcode in 8 guesses.</p> <p>Player2, it is now your turn to play.</p> <p>[Round 1, Guess 1] Total Points for Player2: 0</p> <p>Player2, please enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple):</p>	<p>[G, B, Y, O, w, w, w, w] [B, Y, P, O, w, w, w,] [G, Y, R, P, w, w, ,]</p> <p>Player1, you did not guess the passcode in 8 guesses.</p> <p>Player2, it is now your turn to play.</p> <p>[Round 1, Guess 1] Total Points for Player2: 0</p> <p>Player2, please enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple):</p>
<p>testTwoBlackTwoWhite</p> <p>Author : Lyndsay Barnes</p>	<p>[continuation of testTwoBlackOne White]</p> <p>[Round 1, Guess 1] Total Points for Player2 : 0</p> <p>Player2, please enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple)</p> <p>: BRYG</p>	<p>[B, R, Y, G, b, b, w, w]</p> <p>[Round 1, Guess 2] Total Points for Player2: 1</p> <p>Player2, please enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple):</p>	<p>[B, R, Y, G, b, b, w, w]</p> <p>[Round 1, Guess 2] Total Points for Player2: 1</p> <p>Player2, please enter guess (R-ed, Y-ellow, B-lue, G-green, O-range, P-urple):</p>
<p>testThreeBlackZeroWhite</p> <p>Author :</p>	<p>[continuation of testTwoBlackTwo White]</p>	<p>[B, R, G, P, b, b, b,] [B, R, Y, G, b, b, w, w]</p> <p>[Round 1, Guess 2] Total Points for</p>	

Lyndsay Barnes	[Round 1, Guess 2] Total Points for Player1 : 1 Player2, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple) : BRGP	Player1: 1 Player1, please enter guess (R-ed, Y-ellow, B-lue, G-reen, O-range, P-urple):	
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