

System Test Plan:

Document Authors: Lyndsay Barnes, Casey Beise and Will Greene

Date: 4/18/22

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 Files: None

Test Cases

Test ID	Description	Expected Results	Actual Results
testInitialOutput Author: Lyndsay Barnes	\$java -cp bin TheOriginalWordle 1 (Ctrl+C to stop execution)	Welcome to Mastermind! A game of logic, with a bit of chance. This game is for 2 players. Player 1 name?	

<p>testInitialGameSetUp</p> <p>Author: Lyndsay Barnes</p>	<p>\$java -cp bin TheOriginalWordle 1</p> <p>Welcome to Mastermind! A game of logic, with a bit of chance.</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! 4-color codes have been initialized for both players. Let’s begin.</p> <p>[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) : :</p>																																																																	
<p>testVisualDisplay</p> <p>Author: Lyndsay Barnes</p>	<p>\$java -cp bin TheOriginalWordle 1</p> <p>“Welcome to Mastermind! A game of logic, with a bit of chance.</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! 4-color codes have been initialized for both players. Let’s begin.</p>	<p>Player1</p> <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>R</td><td>G</td><td>B</td><td>Y</td><td>w</td><td>b</td><td></td><td></td></tr></table> <p>Player2</p>																																																									R	G	B	Y	w	b			
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	<p>[Round 1, Guess 1] Total Points for Player1 : 0</p> <p>Player1, please enter guess (R-ed, G-reen, B-lue, Y-ellow, O-range, P-urple) : RGBY</p> <p>[Round 1, Guess 1] Total Points for Player2 : 0</p> <p>Player2, please enter guess (R-ed, G-reen, B-lue, Y-ellow, O-range, P-urple): KBGR</p>	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>K</td><td>B</td><td>G</td><td>R</td><td>b</td><td>b</td><td></td><td></td><td></td></tr></table>																																																																K	B	G	R	b	b													
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<p>testPlayer1CorrectGuess</p> <p>Author: Lyndsay Barnes</p>	<p><i>Preconditions:</i></p> <p>Game Started seed 2 (new seed)</p> <p>Player 1: Player1</p> <p>Player 2: Player2</p> <p>Player 1 Guess 1: RGBY</p> <p>Player 2 Guess 1: KBGR</p>	<p>Player1</p> <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>R</td><td>G</td><td>B</td><td>Y</td><td>b</td><td>b</td><td>b</td><td>b</td><td></td></tr></table>																																																																									R	G	B	Y	b	b	b	b		
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		<div>Player2</div> <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>K</td><td>B</td><td>G</td><td>R</td><td>w</td><td>w</td><td></td><td></td></tr></table> <div>Congratulations, Player1! You have guessed the code! Player2 will continue guessing.</div>																																																									K	B	G	R	w	w			
K	B	G	R	w	w																																																														
testPlayer1InvalidGuess Author : Will Greene	<i>Preconditions:</i> Game Started seed 2 (new seed) Player 1: Player1 Player 2: Player2 Player 1 Guess 1: BGXG	Invalid input : use characters R, G, B, Y, O, P only.” Player1, please enter guess (R-ed, G-reen, B-lue, Y-ellow, O-range, P-urple) :																																																																	

testPlayer2InvalidGuess Author : Will Greene	<i>Preconditions:</i> Game Started seed 2 (new seed) Player 1: Player1 Player 2: Player2 Player 1 Guess 1: BGBY Player 2 Guess 1: YYGX	Invalid input : use characters R, G, B, Y, O, P only. Player2, please enter guess (R-ed, G-green, B-lue, Y-ellow, O-range, P-urple) :	
testPlayer1NameTooLong Author : Will Greene	<i>Preconditions:</i> Game Started This game is for 2 players. Player 1 name? This name is too long. This name is too long. This name is too long.	Name too long - max 50 characters Player 1 name?	
testPlayer2NameTooLong Author : Will Greene	<i>Preconditions:</i> Game Started 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	Name too long - max 50 characters Player 2 name?	

	long.		
testPlayer1Wins Author : Will Greene	<i>Preconditions :</i> Player 1 Name : SpongeBob <i>Instructions :</i> Select to play for 1 round, trying to guess the code for Player 1 while repeating the same wrong guess for Player 2.	Congratulations, SpongeBob! You are the winner! Play again (Y-es, Q-uit)?	
testPlayer2Wins Author : Will Greene	<i>Preconditions :</i> Player 2 Name : Patrick <i>Instructions :</i> Select to play for 1 round, trying to guess the code for Player 2 while repeating the same wrong guess for Player 1.	Congratulations, Patrick! You are the winner! Play again (Y-es, Q-uit)?	
testTie Author : Will Greene	<i>Instructions :</i> Select to play for 1 round, make sure each player's first guess is wrong and guess the same for all 8 guesses.	Oh no! It's a tie! Try playing again to settle the tiebreak. 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?	
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) :	
testValidRoundsTen Author : Will Greene	<i>Preconditions:</i> Game Started Player names assigned Number of rounds? 10	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) :	

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?	
testPlayAgain Author : Will Greene	<i>Preconditions :</i> Last round completed. Play again (Y-es, Q-uit)? Y	Welcome to Mastermind! A game of logic, with a bit of chance. ...	
testQuit Author : Will Greene	<i>Preconditions :</i> Last round completed. Play again (Y-es, Q-uit)? Q	Program exits.	
testInvalidPlayAgainInput Author : Will Greene	<i>Preconditions :</i> Last round completed. Play again (Y-es, Q-uit)? u	Invalid input. Play again (Y-es, Q-uit)?"	

testValidPointsPlayer2Round1Guess2 Author: Casey Beise	<i>Preconditions:</i> Game Started seed 2 (new seed) Player 1 has finished their round 1. Player 2: p2Name Player 2 Guess 1: OBGR	[Round 1, Guess 2] Total Points for p2Name : 1	
testValidPointsPlayer1Round2Guess8 Author: Casey Beise	<i>Preconditions:</i> Game Started seed 2 (new seed) Player 1, Guess 7: BYGP	[Round 2, Guess 8] Total Points for p1Name : 7	
testValidPointsPlayer1Round1NoCorrectGuesses Author: Casey Beise	<i>Preconditions:</i> Game Started seed 2 (new seed) Player 1, Guess 8: YGPO	p1Name , you did not guess the code. 2 points will be added to your Total Points.	
testEndOfRound1Summary Author: Casey Beise	<i>Preconditions:</i> Both players have completed their game boards for round 1. Player1 guessed the passcode in 3 guesses and Player2 guessed the passcode in 5 guesses.	Round 1 Summary: p1Name Total Points: 3 p2Name Total Points: 5	

