

System Test Plan: Match Game program

Introduction: Each test case below assumes that the cards directory contains the card image files. The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C.

Test ID	Description	Expected Results	Actual Results
testInitialGUI Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t (Ctrl+C to stop execution)	GUI entitled "Match Game" is displayed with 4 rows and 13 cols of greyed-out cards, EASY GAME, HARD GAME, and QUIT buttons. Status: Welcome to the Match Game -- choose an Easy or Hard Game! Correct Guesses: 0 Total Guesses: 0 Average: <blank>	GUI entitled "Match Game" is displayed with 4 rows and 13 cols of greyed-out cards, EASY GAME, HARD GAME, and QUIT buttons. Status: Welcome to the Match Game -- choose an Easy or Hard Game! Correct Guesses: 0 Total Guesses: 0 Average: <blank>
testEasyGame Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on EASY GAME button (Ctrl+C to stop execution)	GUI displays 4 rows and 13 cols of white cards. Status: Easy Game -- match cards with same value!	GUI displays 4 rows and 13 cols of white cards. Status: Easy Game -- match cards with same value!

testHardGame Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on HARD GAME button (Ctrl+C to stop execution)	GUI displays 4 rows and 13 cols of white card buttons. Status: Hard Game -- match cards with same value and color!	GUI displays 4 rows and 13 cols of white card buttons. Status: Hard Game -- match cards with same value and color!
testQuit Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on QUIT button	GUI closes	GUI closes
testEasyGameMatch Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on EASY GAME button Click on card in row 0, col 0 Click on card in row 1, col 0	GUI displays 2 of clubs at row 0, col 0 2 of diamonds at row 1, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00	GUI displays 2 of clubs at row 0, col 0 2 of diamonds at row 1, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00
testHardGameNotMatch Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on HARD GAME button Click on card in row 0, col 0 Click on card in row 1, col 0	GUI <i>briefly</i> displays 2 of clubs at row 0, col 0 2 of diamonds at row 1, col 0 and then <i>redisplay</i> s white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00	GUI <i>briefly</i> displays 2 of clubs at row 0, col 0 2 of diamonds at row 1, col 0 and then <i>redisplay</i> s white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00

testHardGameMatch Author: Max Farthing	\$ java -cp bin MatchGameGUI -t Click on HARD GAME button Click on card in row 0, col 0 Click on card in row 3, col 0	GUI <i>briefly</i> displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00	GUI <i>briefly</i> displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00
testEasyGameSameCol orDifferentValue Author: Max Farthing	\$ java -cp bin MatchGameGUI -t Click on EASY GAME button Click on card in row 0, col 0 Click on card in row 0, col 1	GUI displays 2 of clubs at row 0, col 0 3 of clubs at row 0, col 1 and then <i>redisplay</i> s white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00	GUI displays 2 of clubs at row 0, col 0 3 of clubs at row 0, col 1 and then <i>redisplay</i> s white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00
testHardGameSameCo lorDifferentValue Author: Max Farthing	\$ java -cp bin MatchGameGUI -t Click on HARD GAME button Click on card in row 0, col 0 Click on card in row 3, col 1	GUI <i>briefly</i> displays 2 of clubs at row 0, col 0 3 of spades at row 3, col 1 and then <i>redisplay</i> s white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00	GUI <i>briefly</i> displays 2 of clubs at row 0, col 0 3 of spades at row 3, col 1 and then <i>redisplay</i> s white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00
testEasyGameSameCol orSameValue	\$ java -cp bin MatchGameGUI -t Click on EASY GAME button	GUI displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0	GUI displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0

Author: Max Farthing	Click on card in row 0, col 0 Click on card in row 3, col 0	Correct Guesses: 1 Total Guesses: 1 Average: 1.00	Correct Guesses: 1 Total Guesses: 1 Average: 1.00
testHardGameMultiple Matches	\$ java -cp bin MatchGameGUI -t Click on HARD GAME button Click on card in row 0, col 0 Click on card in row 3, col 0 Click on HARD GAME button Click on card in row 1, col 1 Click on card in row 2, col 1	GUI <i>briefly</i> displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00 2 of diamonds at row 1, col 1 2 of hearts at row 2, col 1 Correct Guesses: 2 Total Guesses: 2 Average: 1.00	GUI <i>briefly</i> displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00 2 of diamonds at row 1, col 1 2 of hearts at row 2, col 1 Correct Guesses: 2 Total Guesses: 2 Average: 1.00