

## System Test Plan: Hearts program

**Introduction:** 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 HeartsGUI Player -t  <b>(Close window to stop execution)</b>	GUI entitled "CSC116 Hearts", with directions "Player's Turn", Player: 0, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed. The Player's card images are displayed in this order: 2, 6, 10, Ace of Clubs; 5, 9, King of Diamonds; 4, 8, Queen of Spades; 3, 7, Jack of Hearts.	GUI entitled "CSC116 Hearts", with directions "Player's Turn", Player: 0, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed. The Player's card images are displayed in this order: 2, 6, 10, Ace of Clubs; 5, 9, King of Diamonds; 4, 8, Queen of Spades; 3, 7, Jack of Hearts.
testPlayingFirstTrick  Author: Dr. Balik	\$ java -cp bin HeartsGUI Player -t  <b>Click on 2 of Clubs</b>  <b>(Close window to stop execution).</b>	Computer 1 plays 3 of Clubs, Computer 2 plays 4 of Clubs, Computer 3 plays 5 of Clubs and takes all the cards. Computer 3 then plays 9 of Clubs. Player: 0, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed.	Computer 1 plays 3 of Clubs, Computer 2 plays 4 of Clubs, Computer 3 plays 5 of Clubs and takes all the cards. Computer 3 then plays 9 of Clubs. Player: 0, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed.

testPlayingWrong Suit  Author: Dr. Balik	<b>\$ java -cp bin HeartsGUI Player -t</b>  <b>Click on 2 of Clubs</b> <b>Click on 4 of Spades</b>  <b>(Click OK and close window to stop execution).</b>	Dialog box entitled Invalid Move with message "You must play a card of the same suit that started the trick." pops up.	Dialog box entitled Invalid Move with message "You must play a card of the same suit that started the trick." pops up.
testLeadingHeartsTooSoon  Author: Dr. Balik	<b>\$ java -cp bin HeartsGUI Player -t</b>  <b>Click on 2 of Clubs</b> <b>Click on Ace of Clubs</b> <b>Click on 3 of Hearts</b>  <b>(Click OK and close window to stop execution).</b>	Dialog box entitled Invalid Move with message "You cannot start a trick with a Heart until one has been played during a trick." pops up.	Dialog box entitled Invalid Move with message "You cannot start a trick with a Heart until one has been played during a trick." pops up.
testLeadingAndWinningQueenOfSpades  Author: Dr. Balik	<b>\$ java -cp bin HeartsGUI Player -t</b>  <b>Click on 2 of Clubs</b> <b>Click on Ace of Clubs</b> <b>Click on Queen of Spades</b>	Player: 13, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed.	Player: 13, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed.

<p>testWinHearts</p> <p>Author: Abby Blancett</p>	<p>\$ java -cp bin HeartsGUI Player -t</p> <p><b>Click on 2 of Clubs</b>  <b>Click on Ace of Clubs</b>  <b>Click on Queen of Spades</b>  <b>Click on 4 of spades</b>  <b>Click on 10 of clubs</b>  <b>Click on 5 diamonds</b>  <b>Click on 6 clubs</b></p>	<p>Player: 16, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed.</p>	<p>Player: 16, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed.</p>
<p>testPlayHeart</p> <p>Author: Abby Blancett</p>	<p>\$ java -cp bin HeartsGUI Player -t</p> <p><b>Click on 2 of Clubs</b>  <b>Click on Ace of Clubs</b>  <b>Click on Queen of Spades</b>  <b>Click on four of Spades</b>  <b>Click on 6 for clubs</b>  <b>Click on 5 of Diamonds</b>  <b>Click on 8 of Spades</b>  <b>Click on 9 of diamonds</b>  <b>Click on 10 of Spades</b>  <b>Click on king of diamonds</b>  <b>Click on 3 of hearts</b></p>	<p>Player: 16, Computer 1: 0, Computer 2: 4, and Computer 3: 0 are displayed.</p>	<p>Player: 16, Computer 1: 0, Computer 2: 4, and Computer 3: 0 are displayed.</p>
<p>testStartWrongCardAtt empt</p> <p>Author: Abby Blancett</p>	<p>\$ java -cp bin HeartsGUI Player -t</p> <p><b>Click on 3 of Hearts</b></p>	<p>Box stating: You must play the 2 of Clubs to start the trick</p>	<p>Box Stating: You must play the 2 of Clubs to start the trick</p>

<p>testNewHand</p> <p>Author Abby Blancett</p>	<p>\$ <b>java -cp bin HeartsGUI Player -t</b></p> <p><b>Click on 2 of Clubs</b>  <b>Click on Ace of Clubs</b>  <b>Click on Queen of Spades</b>  <b>Click on four of Spades</b>  <b>Click on 6 for clubs</b>  <b>Click on 5 of Diamonds</b>  <b>Click on 8 of Spades</b>  <b>Click on 9 of diamonds</b>  <b>Click on 10 of Spades</b>  <b>Click on king of diamonds</b>  <b>Click on 3 of hearts</b>  <b>Click on 8 of Spades</b>  <b>Click on 9 of Diamonds</b>  <b>Click on 10 of Diamonds</b>  <b>Click on 3 of hearts</b>  <b>Click on 7 of hearts</b>  <b>Click on King of hearts</b></p>	<p>Player: 19, Computer 1: 0, Computer 2:74, and Computer 3: 0 are displayed.</p>	<p>Player: 19, Computer 1: 0, Computer 2:74, and Computer 3: 0 are displayed.</p>
<p>testCustomPlayerName</p> <p>Author: Abby Blancett</p>	<p>\$ <b>java -cp bin HeartsGUI Player -t</b></p> <p><b>(Close window to stop execution)</b></p>	<p>GUI entitled "CSC116 Hearts", with directions "Abby's Turn", Abby: 0, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed. Abby's card images are displayed in this order: 2, 6, 10, Ace of Clubs; 5, 9, King of Diamonds; 4, 8, Queen of Spades; 3, 7, Jack of Hearts.</p>	<p>GUI entitled "CSC116 Hearts", with directions "Abby's Turn", Abby: 0, Computer 1: 0, Computer 2: 0, and Computer 3: 0 are displayed. Abby's card images are displayed in this order: 2, 6, 10, Ace of Clubs; 5, 9, King of Diamonds; 4, 8, Queen of Spades; 3, 7, Jack of Hearts.</p>

