JUNIT - TEST CASES

public boolean checkChoice(int column, String[][]boardCheck)

Test Case	Category	Specific Test Case	Expected Result
userInputGreater	Should return false if the user input is greater than 8	Column/userChoice = 8 (There is no column 8)	false
userInputSmaller	Should return false if the user input is less than 0	Column/userChoice = 0 (There is no column 0)	false
userInputGreat	Should return false if the user input is greater than 8	Column/userChoice = 100 (There is no column 100)	false

public int stateOfPiece(int columnChoice, String[][] boardPlace, String player)

Test Case	Category	Specific Test Case	Expected Result
testStateOfPiece1	Should return 1 if the piece is successfully placed onto the board for player 1	columnChoice = 1 Player = "1"	1
testStateOfPiece2	Should return 1 if the piece is successfully placed onto the board for player 2	columnChoice = 1 Player = "2"	1

public int winner(String[][] boardWinner)

Test Case	Category	Specific Test Case	Expected Result
testWinner()	Should return 1 if player 1 wins (Vertically)	Pieces set to "1" in Column 3 from Rows 2 to 5 on the board	1
testWinner2()	Should return 2 if player 2 wins (Vertically)	Pieces set to "2" in Column 5 from Rows 3 to 6 on the board	2
testWinner3()	Should return 1 if player 1 wins (Vertically)	Pieces set to "1" in Column 7 from Rows 1 to 4 on the board	1
testWinner4()	Should return 1 if player 1 wins (Horizontally)	Pieces set to "1" in Row 1 from Columns 4 to 7 on the board	1

testWinner5()	Should return 1 if player 1 wins (Horizontally)	Pieces set to "1" in Row 4 from Columns 3 to 6 on the board	1
testWinner6()	Should return 1 if player 1 wins (Horizontally)	Pieces set to "1" in Row 6 from Columns 1 to 4 on the board	1
testWinner7()	Should return 0 if no player wins (Diagonally)	See Image 1	0
testWinner8()	Should return 1 if player 1 wins (Diagonally)	See Image 2	1
testWinner9()	Should return 2 if player 2 wins (Diagonally)	See Image 3	2
testWinner10()	Should return 1 if player 1 wins (Diagonally)	See Image 4	1

Image 1

	1	2	3	4	5	6	7
1							
2							
3				2			
4					2		
5						2	
6							1

testWinner7()

Image 2

	1	2	3	4	5	6	7
1							1
2						1	
3					1		
4				1			
5							
6							

testWinner8()

Image 3

	1	2	3	4	5	6	7
1							
2							
3				2			
4			2				
5		2					
6	2						

testWinner9()

Image 4

	1	2	3	4	5	6	7
1				1			
2			1				
3		1					
4	1						
5							
6							

testWinner10()

The images above represent samples of connect four boards to help visualize each test case.