Method To Be Tested	Test Description
testIsLegalVerticalNonCaptureMove	 Test to make sure that it is conditional to cover all the branches. This tests the over all the conditional branches which include The backwards, and forward move to make sure they are captured Tests in JUnit show whether the forward and backward move are able to capture vertically when horizontally moved The dorward move works however one of the backward moved fails when compared to the expected value
testIsLegalHorizontalNonCaptureMove	 Test to make sure that the a legal horizontal non capture is moved through all the test cases This test will be checked over the conditional branches of the forward (1), (2), move and backward move and the max allowed step This test will be checked
testIsLegalDiagnalNonCaptureMove	 This method must be checked over all the conditional branches The conditional branches include the move for forward and backward when the max allowed steps, and one step If it is a non capture diagonal movement is made it must check the possible backward and forward conditions
testIsLegalNonCaptureMoveForQueen	 This method must be checked over all the conditional branches of queen if a legal non capture movement is made The conditional branches include forward move horizontal

• As Well as backward move that is horizontal • Another branch is the forward move that is vertical • As Well as backward move that is vertical • Another conditional branch involves a diagonal move in the forward directional • As Well as the diagonal movement in the backward direction testIsLegalCaptureMoveForQueen • This test is made to ensure that if a legal capture movement for a queen piece than the queen is able to capture • This method must be able to check all the conditional branches • The conditional branches include if a legal move is made and is in the forward diagonal directional if it is added there and the piece that it is attacking is removed The conditional branch includes if a legal move is made and is in the backward diagonal direction it check to make sure the queen is added there and the pieced attacked is removed • Another conditional branch that must be checked is if the queen makes a legal capture move in the backward diagonal direction it is made • As Well as a legal capture move made by the queen in the backward diagonal move Another conditional branch is if the queen can make a legal clause in the forward vertical direction • Another conditional branch is if the queen can make a legal

	clause in the backward vertical direction
testIsLegalNonCaptureMoveForRook	 Another test that must be made is to ensure that the rook is able to make a legal non capture move by the rook over the conditional branches One of the conditional branches is a forward move in the horizontal directions As Well as a horizontal move in the backward direction condition is met when it is a legal non capture move Another condition that must be checked for the rook is if it is able to move backward in the vertical direction As Well as if the rook is able to move vertically in the backward direction
testIsLegalCaptureMoveForRook	 This test is to check all the conditions of the rooks movement if a capture movement is made and it is legal of the rook This test is in place to check if the rook is able to move backward in the horizontal direction and capture a piece This test is in place to check if the rook is able to move forward in the vertical direction and capture a piece This test is in place to check if the rook is able to move forward in the vertical direction and capture a piece This test is in place to check if the rook is able to move backward in the vertical direction and capture a piece
testIsLegalNonCaptureMoveForBishop	This is the test must ensure that if a legal move is made by the Bishop note

	regarding a capture then it is able to move The conditional branches that must be checked include a move made by the bishop in the in a straight diagonal movement As well as the conditional that there must be no piece on a square between the bishop's starting and terminating spaces. Another conditional that must be checked is a legal move in the backward diagonal direction Another conditional that must be checked is a legal move in the forward diagonal direction
testIsLegalCaptureMoveForBishop	 The test is to check all the condition of a Bishops move if it is a legal move not involving a capture for a bishop The conditions include A bishop can move any number of spaces in a straight diagonal. Another condition is checking that there must be no piece on a square between the bishop's starting and terminating spaces.
testIsLegalNonCaptureMoveForKing	 The test is to check all the condition of a King move if it is a legal move not involving a capture for a king The conditions include checking if When a king is threatened with capture (but can protect himself or escape), it's called check. Test the condition of If a king is in check, then the player must make a move that eliminates the threat of capture and cannot leave the king in check.

testifPieceIsInPathOfMovement	 This test is in place to ensure that if a piece is in the path of movement it maintains the conditions described in European chess piece One movement that must be checked is if it is a pawn and it is in the way the piece of queen, king,knight are able to move over it Another condition that must be checked is if the path of movement is blocked for a piece due such as the kind who can not move more than one square or if they are on the same side
testIsLegalCaptureMoveForKing	 The test is to check all the condition of a King move if it is a legal move involving a capture for a king The conditions include
testCastlingKing	 This test must be checked ovr all the conditions permitted in European king chess piece The condition of if the king is moved two spaces to the left or right It must also be checked that the castle move is only legal if the king has never moved Another condition that must be checked is if there is a rook belonging to the same player in the corner the king is moving toward and the rook has never moved as well as checking the condition of the squares between the king and the rook are threatened inorder to check if the castling move can be made Neither king nor rook involved in castling may have moved from the original position; There must be no pieces between the

	king and the rook
testIsLegalNonCaptureMoveForKnight	 The test is to check all the condition of a knight move if it is a legal move not involving a capture for a knight The conditions include making sure that the Knight can move one square along any direction The conditions include making sure that if it is a legal move for a knight not involving capture it can move to the horizontal and vertical forward As Well as testing the condition horizontally and vertically downward that the knight is able to move And was as testing the condition of whether it can move backward horizontal and vertically upward And the condition of whether it can move horizontally and backward downward as well
testIsLegalCaptureMoveForKnight	 The test is to check all the condition of a knight move if it is a legal move involving a capture for a knight piece The conditions involve checking if a piece is captured when horizontally and vertically downward that the rook is able to move And was as testing the condition of whether it can move backward horizontal and vertically upward And the condition of whether it can move horizontally and backward downward as well and be able to capture a piece
testIsLegalNonCaptureMoveForPawn	 The test is to check all the condition of a paul move if it is a legal move not involving a capture for a pawn The conditions include making sure

	 that they can move forward one square, if that square is unoccupied. Another condition includes that if it has not yet moved, the pawn has the option of moving two squares forward provided both squares in front of the pawn are unoccupied. Another condition includes that check that a pawn cannot move backward. Another condition includes checking that if the pawn lands on the last row on the opponent's side of the board, the pawn can be upgraded to another piece.
testIsLegalCaptureMoveForPawn	 The test is to check all the condition of a paul move if it is a legal move involving a capture for a pawn The conditions include making sure that the pawn can move forward one square, if that square is unoccupied and capture another piece Another condition includes that check that a pawn cannot move backward and capture a piece Another condition includes checking that if the pawn lands on last row on the opponent's side of the board, the pawn can be upgraded to another piece