Commit	Description
number	
2cba1d7	<pre>@Test public void test1(){</pre>
	String[][] result = {{"_","_","_"},{"_","_"},{"_","_"}};
	<pre>assertTrue(Arrays.deepEquals(result,tic.default_Board()));</pre>
	}
	<pre>public static String[][] default_Board(){</pre>
	<pre>String[][] board = new String[3][3]; for (int i = 0; i < 3; i++) { for (int j = 0; j < 3; j++) { board[i][j] = "_"; } } return board;</pre>
2016860	
a310003	@Test
	void test2() {
	<pre>Tic tic = new Tic(row:3,col:3); assertEquals("_", tic.board[1][1]); }</pre>
	number

```
Test3:
           f0dd154
                          @Test
PlaceO
                          public void test3(){
(places o
                             Tic board=new Tic(row:3,col:3);
in an
                               board.placeO(row:1,col:1);
specific
                               assertEquals(board.board[1][1],"o");
case)
                          public void placeO(int row,int col){
                               if(row>this.rows || col>this.cols){
                                   return;
                          this.board[row][col] ="o";
Test4:
           ec3aa92
Equals
                           @Test
(compares
                           void test4() {
boards)
                               Tic tic1 = new Tic(row:3, col:3);
                               Tic tic2 = new Tic(row:3,col:3);
                                assertTrue(Tic.Equals(tic1, tic2));
                         public static boolean Equals(Tic tic1, Tic tic2){
                            if(tic1.rows != tic2.rows || tic1.cols != tic2.cols){
                                return false;
                            for(int i=0; i<tic1.rows; i++){</pre>
                                for(int j=0; j<tic1.cols; j++){</pre>
                                    if(tic1.board[i][j]!=tic2.board[i][j]){
                                        return false;
                            return true;
Test5:
           89172c8
                          @Test
BoardSize
                          public void test5() {
(number
                             assertEquals(4, Tic.boardSize(indexI:2,indexJ:2));
vs board
size)
                         public static int boardSize(int indexI, int indexJ){
                            return indexI*indexJ;
```

```
Test6:
             5aa7ed9
                            @Test
FullRow (if
                            public void test6() {
a row
                                 Tic tic = new Tic(row:3, col:3);
contains
                                 for(int i=0; i<3; i++){
same
                                      tic.board[0][i] = "o";
values)
                                 assertTrue(tic.fullRow(row:2));
                             public boolean fullRow(int row) {
                                  String value = this.board[row][0];
                                  for(int i=0; i<this.cols; i++){</pre>
                                       if(this.board[row][i]!=value){
                                            return false;
                                  return true;
Test7:
             2a40e68
                             @Test
                             public void test7() {
EmptyBoa
                                String[][] result = {{"_","_","_"},{"_","_","_"}};
assertTrue(Arrays.deepEquals(result,tic.emptyboard(indexI:2,index7:3)));
rd (is
board is
empty)
                            public static String[][] emptyboard(int indexI, int indexJ) {
                                String[][] board = new String[indexI][indexJ];
                                for (int i = 0; i < indexI; i++) {
                                    for (int j = 0; j < indexJ; j++) {
                                       board[i][j] = "_";
                                return board;
```

```
Test8:
           0fc7632
                        @Test
fullCol (if
                        public void test8() {
column
                            Tic tic = new Tic(row:3, col:3);
contains
                            for(int i=0; i<3; i++){
same
                                tic.board[i][0] = "X";
values)
                            assertTrue(tic.fullCol(col:1));
                       public boolean fullCol(int col) {
                           String value = this.board[0][col];
                           for(int i=0; i<this.rows; i++){</pre>
                                if(this.board[i][col]!=value){
                                    return false;
                           return true;
Test9:
           428fbb9
                        @Test
PlaceX
                        public void test9(){
(places x
                            Tic board=new Tic(row:3,col:3);
in an
                            board.placeX(row:1,col:1);
specific
                            assertEquals(board.board[1][1],"x");
case)
                       public void placeX(int row, int col){
                           if(row>this.rows || col>this.cols){
                               return;
                       this.board[row][col] ="x";
Test10:
           11563c5
                              @Test
FullCol+pl
                              public void test10() {
aceX
                                   Tic tic = new Tic(row:3, col:3);
(merging
                                   for(int i=0; i<3; i++){
methods)
                                       tic.placeX(i,col:0);
                                   assertTrue(tic.fullCol(col:1));
```

```
public boolean fullCol(int col) {
    String value = this.board[0][col];
    for(int i=0; i<this.rows; i++){
        if(this.board[i][col]!=value){
            return false;
        }
    }
    return true;
}</pre>
```

```
.
+-- JUnit Jupiter [OK]

| '-- TicTest [OK]
| +-- test10() [X] Index 2 out of bounds for length 2
| +-- test1() [X] expected: <true> but was: <false>
| +-- test2() [X] expected: <> but was: <>>
| +-- test3() [X] expected: <> but was: <x>
| +-- test4() [X] expected: <true> but was: <false>
| +-- test5() [X] expected: <true> but was: <false>
| +-- test6() [X] Index -1 out of bounds for length 3
| +-- test7() [X] expected: <true> but was: <false>
| +-- test8() [X] Index 2 out of bounds for length 2
| '-- test9() [X] expected: <x> but was: <o>
'-- JUnit Vintage [OK]
```

```
+-- JUnit Jupiter [OK]

--- TicTest [OK]

+-- test10() [OK]

+-- test2() [OK]

+-- test3() [OK]

+-- test4() [OK]

+-- test5() [OK]

+-- test6() [OK]

+-- test7() [OK]

+-- test8() [OK]

--- test8() [OK]

--- test9() [OK]

--- JUnit Vintage [OK]
```