

eclipse-workspace - Dsalava/src/TicTacToe/TicTacToe.java - Eclipse IDE

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Package Explorer: X

- Dsalava
 - JRE System Library [JavaSE-19]
 - src
 - BST
 - Dp
 - graph
 - hashmapThroughHashTable
 - PriorityQueue
 - queue
 - recursion
 - sortingAlgo
 - TicTacToe
 - Board.java
 - Player.java
 - TicTacToe.java
 - Trie
 - module-info.java

Board.java Player.java TicTacToe.java X

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if (playerIturn) {
    System.out.println("Player 1 - "+p1.getName()+"'s turn - ");
    System.out.println("Enter x - ");
    int x = sc.nextInt();
    System.out.println("Enter y - ");
    int y = sc.nextInt();
    status = board.move(p1.getSymbol(), x, y);
    if (status==board.INVALIDMOVE) {
        System.out.println("It's a Invalid Move , Please try again");
        continue;
    }
} else {
    System.out.println("Player 2 - "+p2.getName()+"'s turn - ");
    System.out.println("Enter x - ");
    int x = sc.nextInt();
    System.out.println("Enter y - ");
    int y = sc.nextInt();
    status = board.move(p2.getSymbol(), x, y);
    if (status==board.INVALIDMOVE) {
        System.out.println("It's a Invalid Move , Please try again");
        continue;
    }
}
board.printStatus();
playerIturn = !playerIturn;
}

if (status==board.PLAYER1WINS) {
    System.out.println("Player 1 " + p1.getName() + " won!!!! ");
} else if (status==board.PLAYER2WINS) {
    System.out.println("Player 2 " + p2.getName() + " won!!!! ");
} else {
    System.out.println("DRAW!!!!");
}

}

}

public static void main(String[] args) {
    TicTacToe t = new TicTacToe();
    t.startGame();
}

}
```

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Board.java Player.java TicTacToe.java X

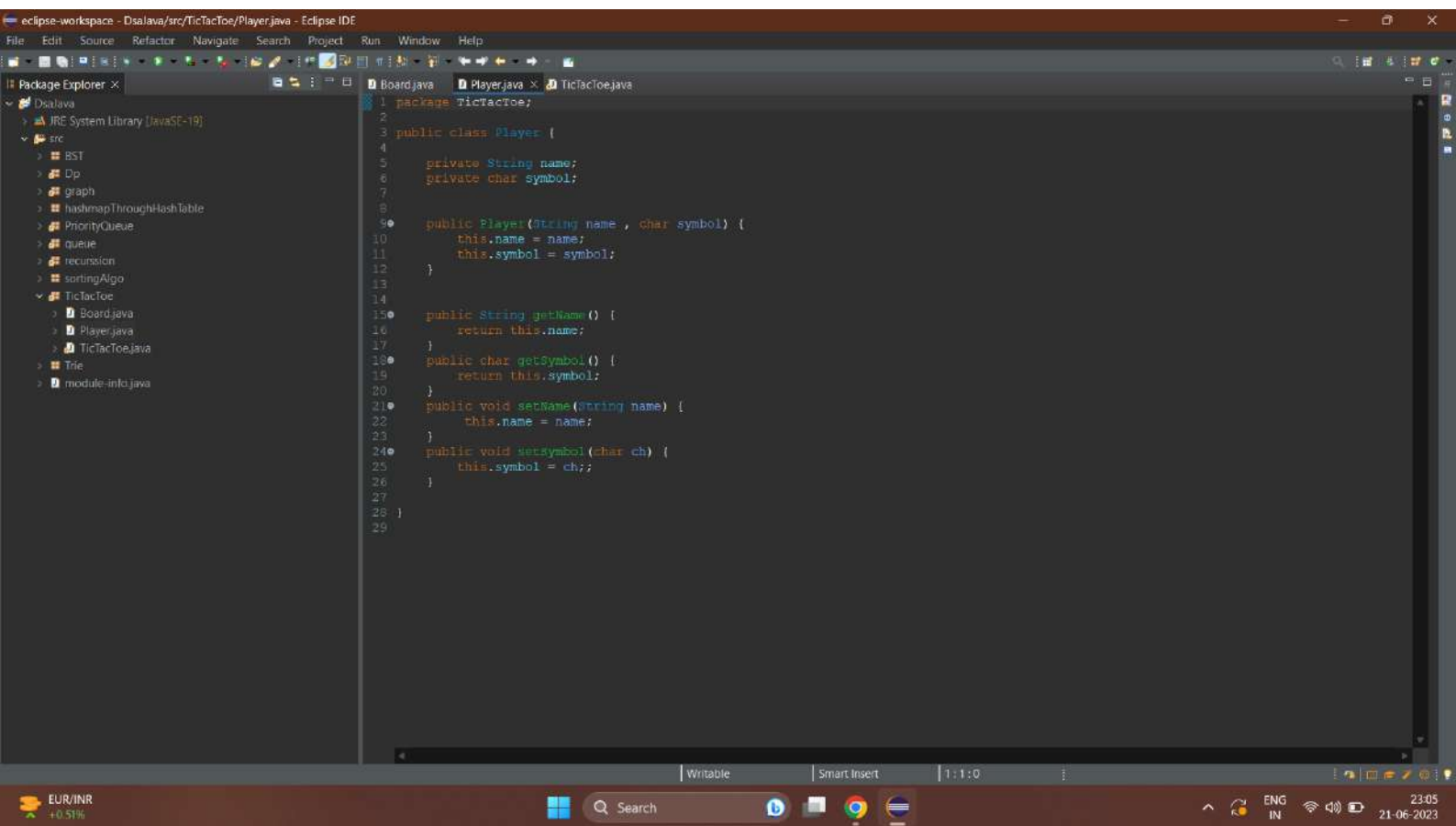
```
1 package TicTacToe;
2
3 import java.util.Scanner;
4
5 public class TicTacToe {
6
7     private Player p1;
8     private Player p2;
9     private Board board;
10    private int playerNum;
11
12    private Player takeInput(int num) {
13        Scanner sc = new Scanner(System.in);
14        System.out.println("Enter the "+ num +" player name");
15        String name = sc.next();
16        System.out.println("Enter the "+ num +" player symbol");
17        char ch = sc.next().charAt(0);
18        while(ch!=' '){
19            ch = sc.next().charAt(0);
20        }
21        return new Player(name , ch);
22    }
23
24    public void startGame() {
25        Scanner sc = new Scanner(System.in);
26        //Input of Players
27        p1 = takeInput(++playerNum);
28        p2 = takeInput(++playerNum);
29        //If both players have set same symbol!!!!
30        while(p1.getSymbol()==p2.getSymbol()) {
31            System.out.println("Symbol has already been taken . Kindly enter a new symbol");
32            p1.setSymbol(sc.next().charAt(0));
33        }
34        //creating the new board for the game!!!!!!
35        board = new Board(p1.getSymbol() , p2.getSymbol());
36        boolean playerIturn = true;
37        int status = board.INCOMPLETE;
38        //Start playing the game..
39        while(status==board.INCOMPLETE || status==board.INVALIDMOVE) {
40            if(playerIturn) {
41                System.out.println("Player 1 - "+p1.getName()+"'s turn - ");
42                System.out.println("Enter x - ");
43                int x = sc.nextInt();
44                System.out.println("Enter y - ");
```

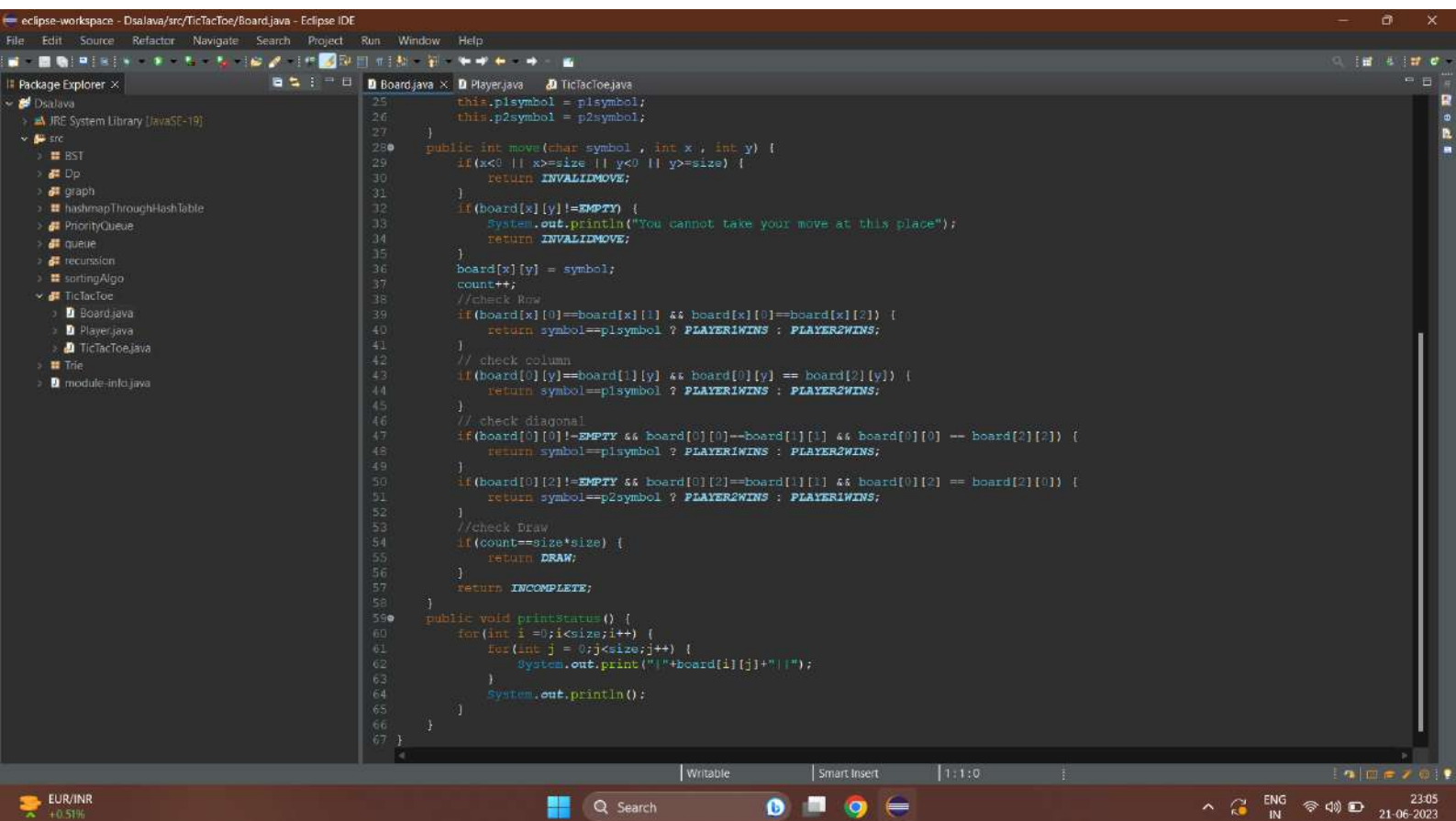
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eclipse-workspace - Dsalava/src/TicTacToe/Board.java - Eclipse IDE

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Board.java

```
1 package TicTacToe;
2
3 public class Board {
4     private char board[][];
5     private char p1symbol, p2symbol;
6     private int size;
7     // count is for number of cells filled
8     private int count;
9     private static final char EMPTY = ' ';
10    public static final int PLAYER1WINS = 1;
11    public static final int PLAYER2WINS = 2;
12    public static final int DRAW = 3;
13    public static final int INVALIDMOVE = 5;
14    public static final int INCOMPLETE = 4;
15
16    public Board(char p1symbol, char p2symbol) {
17        size = 3;
18        count = 0;
19        board = new char[size][size];
20        for(int i = 0; i < size; i++) {
21            for(int j = 0; j < size; j++) {
22                board[i][j] = EMPTY;
23            }
24        }
25        this.p1symbol = p1symbol;
26        this.p2symbol = p2symbol;
27    }
28    public int move(char symbol, int x, int y) {
29        if(x < 0 || x >= size || y < 0 || y >= size) {
30            return INVALIDMOVE;
31        }
32        if(board[x][y] != EMPTY) {
33            system.out.println("You cannot take your move at this place");
34            return INVALIDMOVE;
35        }
36        board[x][y] = symbol;
37        count++;
38        //check Row
39        if(board[x][0] == board[x][1] && board[x][0] == board[x][2]) {
40            return symbol == p1symbol ? PLAYER1WINS : PLAYER2WINS;
41        }
42        // Check column
43        if(board[0][y] == board[1][y] && board[0][y] == board[2][y]) {
```

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Coding Ninjas

Maximum Sum BST in Binary Tree

Problems - LeetCode

+

leetcode.com/problems/maximum-sum-bst-in-binary-tree/description/

Gmail

Coding Ninjas

Online Java Compil...

FSA: Inbox

Problems - LeetCode

FINAL450.xlsx - Go...

The Only Lists You...

Find Common Char...

Merge Intervals - L...

K-th Smallest Prime...

LeetCode

< Problem List >

Premium

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Description

Editorial

Solutions (749)

Submissions

Java

Auto

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Constraints:

- The number of nodes in the tree is in the range $[1, 4 \times 10^4]$.
- $-4 \times 10^8 \leq \text{Node.val} \leq 4 \times 10^8$

Testcase

Result

Case 1

Case 2

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root =

[1, -5, 4, null, -3, null, 10]

```
graph TD; 1((1)) --- -5((-5)); 1 --- 4((4)); -5 --- -3((-3)); 4 --- 10((10))
```

Console

Reset Testcases

Run

Submit

```
28 class Solution {
29     public pair fun(TreeNode root){
30         if(root==null){
31             return new pair(true , Integer.MAX_VALUE , Integer.MIN_VALUE , 0);
32         }
33         pair left = fun(root.left);
34         pair right = fun(root.right);
35         boolean isBst = true;
36         int sum = 0;
37         if(root.val<=left.max){
38             isBst = false;
39         }
40         if(root.val>=right.min){
41             isBst = false;
42         }
43         if(left.isBst && right.isBst && (isBst)){
44             int total = left.sum + right.sum + root.val;
45             sum = Math.max(left.sum , right.sum);
46             sum = Math.max(sum , total);
47         }else{
48             isBst = false;
49             sum = Math.max(left.sum , right.sum);
50         }
51         int min = Math.min(root.val , Math.min(left.min , right.min));
52         int max = Math.max(root.val , Math.max(left.max , right.max));
53         return new pair(isBst , min , max , sum);
54     }
55     public int maxSumBST(TreeNode root) {
56         pair result = fun(root);
57         int sum = result.sum;
58         if(sum<=0){
59             return 0;
60         }
61         return sum;
62     }
63 }
```

19°C Mostly cloudy

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