D:/AASTMT/Modeling & Simulation/Hawk-Dove-Game/src/hawk/dove/game/Battle.java

```
oackage hawk.dove.game;
 mport java.io.PrintWriter;
 mport java.util.Stack;
 ublic class Battle {
    public String BattleRoomName;
     public Stack<PlayerAgent> Players;
     private final int value;
    private final int cost;
public Battle(int value, int cost, PlayerAgent pl) {
    this.BattleRoomName = "Battle room (" + Integer.toString(roomNumber++) + ")";
           this.Players = new Stack();
           this.value = value;
this.cost = cost;
           this.Players.push(p1);
    public boolean isBattleRoomFull(){
          return this.Players.size() == 2;
    public void Battle (PrintWriter writer)
           writer.write("\nA battle in " + this.BattleRoomName + " has started");
writer.write("\nValue: " + Integer.toString(this.value));
writer.write("\nCost: " + Integer.toString(this.cost));
           PlayerAgent p1 = this.Players.pop();
PlayerAgent p2 = this.Players.pop();
           riayeragent pz = tnis.riayers.pop();
writer.write("\n" + pl.toString() + " VS " + p2.toString());
boolean pl_result = pl.updatePayOff(p2.getStrategy(), this.value, this.cost);
           boolean p2_result =p2.updatePayOff(p1.getStrategy(), this.value, this.cost);

writer.write("\n" + p1.getName() + " : " + "Before battle => " + Float.toString(p1.getPrevPayOff()) + " After battle => " + Float.toString(p1.getPayOff()));

writer.write("\n" + p2.getName() + " : " + "Before battle => " + Float.toString(p2.getPrevPayOff()) + " After battle => " + Float.toString(p2.getPayOff()));
           Strategy s1 = p1.getStrategy();
Strategy s2 = p2.getStrategy();
boolean willplChange = p1.changeStrategy(s2);
           boolean willp2Change = p2.changeStrategy(s1);
                  writer.write("\n" + p1.getName() + " will change his strategy to " + p1.getStrategy());
                  writer.write("\n" + p2.getName() + " will change his strategy to " + p2.getStrategy()); \\
           if(p1 result)
                  writer.write("\n" + p1.toString() + " wins");
           else if(p2_result)
    writer.write("\n" + p2.toString() + " wins");
           writer.write("\nDraw");
writer.write("\n" + p1.getName() + " has left " + this.BattleRoomName);
writer.write("\n" + p2.getName() + " has left " + this.BattleRoomName);
writer.write("\n" ------");
           this.Players.push(p1);
           this.Players.push(p2);
    public int getValue() {
    public int getCost() {
          return cost;
```

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