ffk221 src/main/java/versions/War.java

```
package versions;
    import java.util.ArrayList;
    import java.util.List;
    import cardManagement.Card;
    import cardManagement.Player;
    public class War {
10
        private static List<Card> cardsToWin = new ArrayList<Card>();
11
12
        public String beginWar2Players(Player ply1, Player ply2, int version){
13
14
             cardsToWin.clear();
             System.out.println("**WAR**");
15
16
            17
18
                     return "GameOver1";
19
20
2.1
                 if(ply2.handSize() < 2) {</pre>
                      return "GameOver2";
2.2
23
2.4
                 Card ply1Card, ply2Card, ply1Prize, ply2Prize;
25
                 ply1Card = ply1.playFromHand();
26
                 ply2Card = ply2.playFromHand();
2.7
                 ply1Prize = ply1.playFromHand();
28
                 ply2Prize = ply2.playFromHand();
                 System.out.println("Player " + ply1.playerNum + " plays " + ply1Card.toString());
System.out.println("Player " + ply2.playerNum + " plays " + ply2Card.toString());
29
30
31
                 cardsToWin.add(ply2Prize);
32
                 cardsToWin.add(ply1Prize);
33
                 cardsToWin.add(ply2Card);
34
                 cardsToWin.add(ply1Card);
                 if(ply1Card.getValue() > ply2Card.getValue()) {
36
                      if(version == 1)
37
                          ply1.addAllCardsToHand(cardsToWin);
38
                       else
39
                          plyl.addAllCardsToPoints(cardsToWin);
40
41
                      return "plylwin";
42
                 } else if (ply1Card.getValue() < ply2Card.getValue()) {</pre>
                     if(version == 1) {
43
44
                          ply2.addAllCardsToHand(cardsToWin);
45
                       else {
                          ply2.addAllCardsToPoints(cardsToWin);
46
47
48
                      return "ply2win";
49
                 } else if (ply1Card.getValue() == ply2Card.getValue()) {
50
                      //do nothing and repeat
51
52
53
             return "GameOver";
54
55
        public String beginWar3Players(Player ply1, Player ply2, Player ply3){
56
57
             cardsToWin.clear();
             System.out.println("**WAR**");
58
59
             String outcome;
             while(ply1.handSize() != 0 && ply2.handSize() != 0 && ply3.handSize() != 0) {
60
                 if(ply1.handSize() < 2)</pre>
61
62
                      beginWar2Players(ply2, ply3, 2);
63
                      return "GameOverPlayer1";
64
65
                 if(ply2.handSize() < 2)</pre>
66
                      beginWar2Players(ply1, ply3, 2);
67
                      return "GameOverPlayer2";
69
                 if(ply3.handSize() < 2)</pre>
70
                      beginWar2Players(ply1, ply2, 2);
                     return "GameOverPlayer3";
71
72
                 Card ply1Card, ply2Card, ply3Card, ply1Prize, ply2Prize, ply3Prize;
73
                 ply1Card = ply1.playFromHand();
ply2Card = ply2.playFromHand();
74
75
                 ply3Card = ply3.playFromHand();
76
77
                 ply1Prize = ply1.playFromHand();
78
                 ply2Prize = ply2.playFromHand();
79
                 ply3Prize = ply3.playFromHand();
                 System.out.println("Player 1 plays " + ply1Card.toString());
80
                 System.out.println("Player 2 plays " + ply2Card.toString());
System.out.println("Player 3 plays " + ply2Card.toString());
81
82
                 int player1Value = ply1Card.getValue();
83
                 int player2Value = ply2Card.getValue();
84
                 int player3Value = ply3Card.getValue();
85
86
                 cardsToWin.add(ply2Prize);
                 cardsToWin.add(ply1Prize);
87
                 cardsToWin.add(ply3Prize);
88
89
                 cardsToWin.add(ply3Card);
90
                 cardsToWin.add(ply2Card);
```

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```
91
                   cardsToWin.add(ply1Card);
 92
                   if(player1Value > player2Value && player1Value > player3Value) {
 93
                       ply1.addAllCardsToPoints(cardsToWin);
 94
                       return "playerlwin";
 95
                   } else if (player2Value > player1Value && player2Value > player3Value) {
 96
                       ply2.addAllCardsToPoints(cardsToWin);
 97
                       return "player2win";
 98
                   } else if (player3Value > player1Value && player3Value > player2Value) {
 99
                       ply3.addAllCardsToPoints(cardsToWin);
100
                       return "player3win";
101
                   } else if (player1Value == player2Value && player1Value == player3Value) {
                        //Do nothing if all three are equal
102
                   } else if (player1Value == player2Value && player1Value > player3Value) {
    System.out.println("**WAR** - Player 1 vs Player 2");
103
104
                       outcome = beginWar2Players(ply1, ply2, 2);
105
                       if(outcome == "ply1win"){
106
                            ply1.addAllCardsToPoints(cardsToWin);
107
                            System.out.println("Player 1 wins the round");
108
109
                       } else {
110
                            ply2.addAllCardsToPoints(cardsToWin);
111
                            System.out.println("Player 2 wins the round");
112
113
                       return "playerVSplayer";
                   } else if (player1Value == player3Value && player1Value > player2Value) {
   System.out.println("**WAR** - Player 1 vs Player 3");
114
115
                       outcome = beginWar2Players(ply1, ply3, 2);
116
117
                       if(outcome == "ply1win"){
118
                            ply1.addAllCardsToPoints(cardsToWin);
119
                            System.out.println("Player 1 wins the round");
120
                       } else {
                            ply3.addAllCardsToPoints(cardsToWin);
121
122
                            System.out.println("Player 3 wins the round");
123
124
                       return "playerVSplayer";
                   } else if (player3Value == player2Value && player3Value > player1Value) {
    System.out.println("**WAR** - Player 3 vs Player 2");
125
126
127
                       outcome = beginWar2Players(ply3, ply2, 2);
                       if(outcome == "ply1win"){
128
129
                            ply3.addAllCardsToPoints(cardsToWin);
                            System.out.println("Player 3 wins the round");
130
131
                        } else {
                            ply2.addAllCardsToPoints(cardsToWin);
132
133
                            System.out.println("Player 2 wins the round");
134
135
                       return "playerVSplayer";
136
137
138
              return "GameOver";
139
          }
140
141
     }
142
```