

```
1 //Purse.java MrG 2018.0213
2 import java.util.ArrayList;
3 public class Purse
4 {
5     private ArrayList<String> coins;
6
7     public Purse()
8     {
9         coins = new ArrayList<String>();
10    }
11
12    public void addCoin(String name)
13    {
14        coins.add(name);
15    }
16
17    public String toString()
18    {
19        if(coins.size()==0)
20        {
21            return "Purse[]";
22        }
23
24        String temp = "Purse[";
25        for(String coin:coins)
26        {
27            temp+=coin+", ";
28        }
29        return temp.substring(0,temp.length()-2)+"]";
30    }
31    /*
32    public String toString()
33    {
34        String temp = "Purse[";
35        for(int i = 0; i<coins.size(); i++)
36        {
37            temp+=coins.get(i)+", ";
38        }
39        return temp.substring(0,temp.length()-2)+"]";
40    }
41    */
42
43    //public void reverse()
44    //{
45        //???
```

```
46     //}
47
48     public void transfer(Purse other)
49     {
50         for(int i=0; i<other.getCoins().size(); i++)
51         {
52             addCoin(other.getCoins().remove(0));
53         }
54         //other.getCoins().clear();
55     }
56
57     public ArrayList<String> getCoins()
58     {
59         return coins;
60     }
61
62     public boolean sameCoins(Purse other)
63     {
64         if(coins.size()!=other.getCoins().size())
65         {
66             return false;
67         }
68
69         int Q1=0,D1=0,N1=0,P1=0;
70         for(String coin:coins)
71         {
72             if(coin.equals("Quarter")){Q1++;}
73             if(coin.equals("Dime")){D1++;}
74             if(coin.equals("Nickel")){N1++;}
75             if(coin.equals("Penny")){P1++;}
76         }
77
78         int Q2=0,D2=0,N2=0,P2=0;
79         for(int i=0; i<coins.size(); i++)
80         {
81             if(other.coins.get(i).equals("Quarter")){Q2++;}
82             if(other.coins.get(i).equals("Dime")){D2++;}
83             if(other.coins.get(i).equals("Nickel")){N2++;}
84             if(other.coins.get(i).equals("Penny")){P2++;}
85         }
86
87         return Q1==Q2&&D1==D2&&N1==N2&&P1==P2;
88     }
89 }
```