Java
ArrayList worksheet #4

Name -
Period -

Study the following classes and implement the blank methods.

```
// A Coin represents a real world coin such as a "quarter" which
// has a value of 0.25, a "half dollar" which has value of 0.50, etc.
// A class invariant holds that 0.00 < all coin values <= 1.00

public class Coin
{
   private double myValue;
   private String myName;

   public Coin(double value, String name)
   {
       myValue = value;
       myName = name;
   }

   public double getValue()
   {   return myValue;  }

   public String getName()
   {   return myName;   }

   // returns true if this coin is equal to aCoin,
   // which means the name and the value are both equal
   public boolean equals(Coin aCoin)
   {









   }

}

////////////////////////////////////////////////////////

// A Purse holds a collection of Coins
public class Purse
{
   private ArrayList<Coin> coins;

   public Purse()
   { coins = new ArrayList<Coin>(); }

   // adds aCoin to the purse
   public void add(Coin aCoin)
   {   coins.add(aCoin);  }
```

```
    // returns total value of all coins in purse
    public double getTotal()
    {









    }

   // returns the number of coins in the Purse that matches aCoin
   // (both myName & myValue)
   public int count(Coin aCoin)
   {









   }


   // returns the name of the Coin in the Purse that has the smallest value
   public String findSmallest()
   {









   }

}
```