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import java.io.*;
import java.util.*;
public class Change{
    public static void main(String[] args){
        boolean go = true;
        double cost;
        double amount = 0;
        double change;
        double q, n, d, p, t, o, f, tw, h, fif;
        String s = "";
        String breakout = "stop";
        try{
            BufferedReader bReader = new BufferedReader(new InputStreamReader(System.in)) ;
            while(go){
                System.out.print("Please enter the amount of the purchase:");
                s = bReader.readLine();
                cost = ((Double.valueOf(s).doubleValue()));
                System.out.print("Please enter the amount tendered:");
                s = bReader.readLine();
                amount = ((Double.valueOf(s).doubleValue()));
                if (amount >= 0){
                    if (cost < amount){
                        change = (amount-cost);
                        System.out.println("Give the following change ($" +Format.format (change, 2, 1,
                            1)+") :");
                        h = ((change-(change%100))/100);
                        change = change - (100*h);
                        fif = ((change-(change%50))/50);
                        change = change - (50*fif);
                        tw = ((change-(change%20))/20);
                        change = change - (20*tw);
                        t = ((change-(change%10))/10);
                        change = change - (10*t);
                        f = ((change-(change%5))/5);
                        change = change - (5*f);
                        o = ((change-(change%1))/1);
                        change = change - (1*o);
                        q = ((change-(change%.25))/.25);
                        change = change - (.25*q);
                        d = ((change-(change%.1))/.1);
                        change = change - (.1*d);
                        n = ((change-(change%.05))/.05);
                        change = change - (.05*n);
                        p = ((change-(change%.01))/.01);
                        change = change - (.01*p);
                        if (change > 0.001) {p = p + 1;}
                        String hund =String.valueOf(h);
                        String fift =String.valueOf(fif);
                        String twen =String.valueOf(tw);
                        String tens =String.valueOf(t);
                        String five =String.valueOf(f);
                        String ones =String.valueOf(o);
                        String quart =String.valueOf(q);
                        String dimes =String.valueOf(d);
                        String nick =String.valueOf(n);
                        String penn =String.valueOf(p);
                        {if (h>1) System.out.println(Format.format(hund.substring(0, (hund.length())-2), 3, 1) + " $100
                            Bills");
                        else if (h>0) System.out.println(Format.format(hund.substring(0, (hund.length())-2), 3, 1) + " $100
                            Bill");
                        }
                        if (fif>0) System.out.println(Format.format(fift.substring(0, (fift.length())-2), 3, 1) + " $50
                            Bill");
                        {if (tw>1) System.out.print(Format.format(twen.substring(0, (twen.length())-2), 3, 1) + " $20
                            Bills");
                        else if (tw>0) System.out.println(Format.format(twen.substring(0, (twen.length())-2), 3, 1) + " $20
                            Bill");
                        }
                        {if (t>0) System.out.println(Format.format(tens.substring(0, (tens.length())-2), 3, 1) + " $10
                            Bill");
                        }
                        {if (f>0) System.out.println(Format.format(five.substring(0, 1), 3, 1) + " $5 Bill");
                    }
                }
            }
        }
    }
}

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}
{if (o>1) System.out.println(Format.format(ones.substring(0, (ones.length()-2), 3, 1) + " $1     ↵
    Bills");
else if (o>0) System.out.println(Format.format(ones.substring(0, 1), 3, 1) + " $1 Bill");
}
{if (q>1) System.out.println(Format.format(quart.substring(0, (quart.length()-2), 3, 1) + "     ↵
    Quarters");
else if (q>0) System.out.println(Format.format(quart.substring(0, 1), 3, 1) + " Quarter");
}
{if (d>1) System.out.println(Format.format(dimes.substring(0, (dimes.length()-2), 3, 1) + "     ↵
    Dimes");
else if (d>0) System.out.println(Format.format(dimes.substring(0, 1), 3, 1) + " Dime");
}
{if (n>0) System.out.println(Format.format(nick.substring(0, 1), 3, 1) + " Nickle");
}
{if (p>1) System.out.println(Format.format(penn.substring(0, (penn.length()-2), 3, 1) + "     ↵
    Pennies");
else if (p>0) System.out.println(Format.format(penn.substring(0, 1), 3, 1) + " Penny");
}
    }
else if (cost == amount){System.out.println("There is no change.");}
    else {
        int wid = 6;
        if ((cost-amount)<10) wid = 2;
        if ((cost-amount)<100) wid = 3;
        if ((cost-amount)<1000) wid = 4;
        System.out.println("The amount tendered is $" + Format.format((Math.abs ↵
            (cost-amount)), 2, wid, 1) + " short.");
    }
    }
} catch(Exception e){if (s.equals(breakout))System.out.println("Bye"); else System.out.     ↵
    println("Oops!  You have made an invalid entry");}
}
}
```