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import java.util.Scanner;

public class Random {

    public static void main(String[] args){
        xxs();
        guesses();
        Scanner in = new Scanner(System.in);
        System.out.println("What sum do you want from the two dice");
        int b = in.nextInt();
        dice(b);
        coin();
        avg();

    }
    public static void xxs(){
        int x = (int)((Math.random()*16)+5);
        do{
            for(int i=0; i<x;i++){
                System.out.print("x");
            }
            System.out.println();
            x = (int)((Math.random()*16)+5);
        }while(x<=16);
        for(int i=0; i<16;i++){
            System.out.print("x");
        }

    }

    public static void guesses(){
        int a = (int)((Math.random()*50)+1);
        System.out.println();
        do{
            System.out.print("guess =" +a);
            System.out.println();
            a = (int)((Math.random()*50)+1);
        }while(a<=47);
        System.out.println("guess =" +a);
    }

    public static void dice(int sum){
        int fdice;
        int sdice;
        System.out.println();
        System.out.println("Desired Sum: " +sum);
        do{
            fdice = (int)((Math.random()*6)+1);
            sdice = (int)((Math.random()*6)+1);
            System.out.print(fdice+" and "+sdice);

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        System.out.println();
        if(fdice+sdice==sum){
            break;
        }
    }while(true);
}

public static void coin(){
    int fcoin;
    int scoin;
    int tcoin;
    System.out.println();

    do{
        fcoin = (int)(Math.random()*2);
        scoin = (int)(Math.random()*2);
        tcoin = (int)(Math.random()*2);
        if(fcoin==0){
            System.out.print(" H ");
        }
        else{
            System.out.print(" T ");
        }
        if(scoin==0){
            System.out.print(" H ");
        }
        else{
            System.out.print(" T ");
        }
        if(tcoin==0){
            System.out.print(" H ");
        }
        else{
            System.out.print(" T ");
        }
        if(fcoin==0&&scoin==0&&tcoin==0){
            break;
        }
    }while(true);
}

public static void avg(){

    int nsum=0;
    int count=0;
    int thenum;
    System.out.println();
    Scanner in = new Scanner(System.in);
    do{

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System.out.println("Enter a number");
thenum=in.nextInt();
if(thenum<0){
    System.out.println("Avg: "+(nsum/count));
    break;
}
else {
    nsum+=thenum;
    count++;
}
}while(true);
}
}
```