Class:

package pkg202\_practice;

public class Die {

private int face;

public int getFace() {

return face;

}//getFace

public int roll(){

face = (int) (Math.random() \* 6) + 1;

return face;

}//roll

}//class die

Main:

package pkg202\_practice;

/\*\*

\*

\* @author gawitt

\*/

public class Main {

public static void main(String[] args) {

final int ROLLS = 1000000;

//istantiated array of 13 positions

int[] results = new int[13];

// instatiated objects

Die die1 = new Die();

Die die2 = new Die();

//echo

//System.out.println("die1:" + die1.roll());

//System.out.println("die2:" + die2.roll());

for (int i = 0; i < ROLLS; i++) {

int num = die1.roll() + die2.roll();

results[num]++;

if(die1.getFace() == die2.getFace()){

results[1]++;

}//if

}//for

System.out.println("Number\t\tCount\t\tPercent"); //tab

System.out.println("============================================");

for (int i = 1; i < results.length; i++) {

//cast into a double ints multiplied by 100 to shift decimal place over two

System.out.println( i + "\t\t" + results[i]+ "\t\t" + (double)100 \* results[i]/ROLLS);

System.out.println();

}//for

//Display Doubles

System.out.println("============================================");

System.out.println("Doubles" +"\t\t" + results[1] + "\t\t" + (double) 100 \* results[1]/ROLLS );

}//main

}//class

Output:

run:

Number Count Percent

============================================

2 27647 2.7647

3 55551 5.5551

4 83327 8.3327

5 110937 11.0937

6 138943 13.8943

7 166928 16.6928

8 138741 13.8741

9 111346 11.1346

10 83299 8.3299

11 55366 5.5366

12 27915 2.7915

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Doubles 166701 16.6701

BUILD SUCCESSFUL (total time: 0 seconds)