

COMPSCI 119

EXTRA CREDIT LAB ASSIGNMENT

Professor William T. Verts

When you roll two fair six-sided dice, your total for the roll will be a number between 2 and 12. If the dice are truly fair, the counts should be the following values:

Value	Percent
2	2.78%
3	5.56%
4	8.33%
5	11.11%
6	13.89%
7	16.67%
8	13.89%
9	11.11%
10	8.33%
11	5.56%
12	2.78%

Write a Python program to test this.

Your program must first ask the user for the number of times to roll the dice. For that many times, it will roll two dice (each giving a random number from 1 to 6), add the two numbers together, and then keep track of how many times that value was encountered. After this is complete, print each value, the number of times that value occurred, and the percentage of the total that the value occurred. For example, when I ran my solution program for 100000 rolls I got the following answers (you'll get different results):

```
Enter number of rolls --- 100000
Value= 2 Count= 2852 = 2.852 %
Value= 3 Count= 5560 = 5.56 %
Value= 4 Count= 8278 = 8.278 %
Value= 5 Count= 11158 = 11.158 %
Value= 6 Count= 13962 = 13.962 %
Value= 7 Count= 16614 = 16.614 %
Value= 8 Count= 13857 = 13.857 %
Value= 9 Count= 11078 = 11.078 %
Value= 10 Count= 8298 = 8.298 %
Value= 11 Count= 5509 = 5.509 %
Value= 12 Count= 2834 = 2.834 %
```

This is a very short program for you to write. My solution is only 11 lines of code, although if I used a few tricks I could get it down to 6 lines, including my name in a comment at the top of the program. (Don't forget your name comment!) That's why this is only a **5-point assignment**. Submit this as Lab #5.