Lab Report 02

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**Problem**

Write a program that gives the statistics of a die being rolled some number of times!

Requirements:

* The user enters a non-zero, positive, whole number of times the die is rolled.
* Make sure to check for valid inputs, so no negative numbers or 0.
  + If the user enters a 0 or negative value, then end the program.
* Use a random number generator to pick random values from 1 to 6 and keep count on each of those.
* Give the number of times each number was “rolled”. IE randomly generated.

**Solution**

i<=time

Print all the answers

NO

Set up Scanner and Random

Yes

If roll=1 then one++…….if roll=6 then six++

Prompt for rolled times

(input = int time)

NO

Time>0

End

Print roll +”was rolled”

Yes

Int one = 0, two = 0, three = 0, four = 0, five = 0, six = 0, roll=random 1~6, i=1

i++

Get the input for times of rolled first. Then determine if it is value. If not, end the program. Next, declare every variable I need and make a for-loop to run the input time. In the loop, use “if” to find number of every times dice rolled out and store to every corresponding variable. Print the number in every loop by the way. Finally, Print the results.

**Implementation Problems Encountered**

No big issue this time. Just hard to use parentheses. Need to be careful.

**Lab Report Questions**

1. Create a flow chart for your proposed solution
2. What is the difference between a “while loop” and a “do while loop”?

The body of a do-while runs at least once

The body of a while may never run at all

1. What type of logic error occurs when the Boolean expression is never false in a loop?

Infinite loop