Programming Assignment #1c   Name _Isaac Cardello_____
Flowcharting

This one is more of a challenge: it includes a loop structure.

Create a flowchart that will find the average of 3 numbers and then print the average.
Your flowchart must read three numbers, one at a time (inside the loop). You must use a
counting variable to figure out how many numbers you have read in. When the program
has read three numbers, it will calculate the average.

You must keep track of how many numbers the program has read, one at a time. To do
this, you must use four variables: number, count, total and average. Use the flowcharting
symbols and logic that were learned in class. After you draw it out by hand, use
flowcharting symbols in Word to create yourself a professional looking flowchart.

Graded on √+, √, √- scale. Assignments can be corrected to earn a √+. They must be
correct and neat to earn a √+.

If you can't figure out how to make it work with a loop, you can create a flowchart
(which is far less "elegant") that will still get the job done. This solution will earn you a
maximum of 70.

```
                    ┌─────────────┐
                    │    Start    │
                    └──────┬──────┘
                           │
                           ▼
                  ┌─────────────────┐
                  │    count = 0    │
                  └────────┬────────┘
                           │
                           ▼
                  ┌─────────────────┐
                  │    total = 0    │
                  └────────┬────────┘
                           │
                           ▼
                  ╱─────────────────╲
                 ╱   Read number    ╲
                 ╲                   ╱
                  ╲─────────┬───────╱
                           │
                           ▼
                  ┌─────────────────┐
                  │ count = count + 1│
                  └────────┬────────┘
                           │
                           ▼
                  ┌─────────────────┐
                  │total = total + number│
                  └────────┬────────┘
                           │
                           ▼
   ┌────┐           ◇─────────────◇          ┌─────┐
   │ No │◄──────────   count = 3?   ──────────►│ Yes │
   └────┘           ◇─────────────◇          └─────┘
                                                 │
                                                 ▼
                                    ┌─────────────────────┐
                                    │ average = total / count│
                                    └──────────┬──────────┘
                                               │
                                               ▼
                                      ╱─────────────────╲
                                     ╱   Print average   ╲
                                     ╲───────────┬───────╱
                                                 │
                                                 ▼
                                        ┌─────────────┐
                                        │     End     │
                                        └─────────────┘
```