**Student Name/Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Rubric:**

\_\_\_\_\_\_ / 10 Prompts user for too high, too low, or equal

\_\_\_\_\_\_ / 5 Counts the number of guesses

\_\_\_\_\_\_ / 20 Guesses the right number within 10 tries every time.

\_\_\_\_\_\_ / 5 Comments, variables, overall style

\_\_\_\_\_\_ / 10 Program emailed properly on time with correct subject line

\_\_\_\_\_\_\_/50 Total

**Description:**

* Create a num\_guess program that asks the user to think of a number between 1 and 1,000. The computer will begin guessing numbers and asking if the guess is too high or too low, and the user will input something to let it know which it is. It gets 10 tries.
* For example, my program might say this (bold text would be the user’s input):

Think of a number from 1 to 1000. Type 1 to start.

**1**

Guess 1: 512. Type high for too high, low for too low, or equal if I’m right.

**high**

Guess 2: 256. Type high for too high, low for too low, or equal if I’m right.

**low**

Guess 3: 384. Type high for too high, low for too low, or equal if I’m right.

And so on.

**HINT:** I would encourage you to keep track of 2 numbers: both the current guess and also how much you’re going to change it next time. For instance, for guess 3 above, my program would know that 384 was the last guess and the next change would be 64.

**Program Requirements**

* Must Compile without modifications to the code (all or nothing)
* Correct formatting and indentation (5 points)

**What to do with it once you’re done (10 points)**

* Email me a copy of your .py file
  + The subject line MUST be “[ICS] Week 08 LastName” so mine would be “ [ICS] Week 08 Swindle”
  + MUST be turned in by the start of class on 10/2 or it’s late.