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# CptS 111, Fall 2017
# Programming Assignment #5
# October 15, 2017
# for-Loops, Fibonacci, and a Statistics Program
# This program prompts the user for the number of terms they wish
# to find in the Fibonacci Sequence then displays the results
# along with the overall number of terms in the sequence and an
# approximation of the Golden Ratio.

def fib(num_terms):
    """Gets the number of terms the user wishes to find, prints all of the results"""
    first = 0
    second = 1
    term_list = list(range(1, num_terms + 1))
    counter = 1 # Tracking the number of terms in the sequence
    print(counter, second)
    for i in range(num_terms - 1):
        quotient = (first / second) + 1 # Calculating the Fibonacci number
        third = first + second
        first = second
        second = third
        print(counter + 1, second, quotient) # Printing number of terms, Fibonacci Sequence, and Golden Ratio approximation
        counter += 1

def main(): # Using main to call the other functions
    """Calling the other functions"""
    num_terms = int(input('Enter the number of terms you want to find: '))
    fib_ratio = fib(num_terms)

main()
```