APS106 - LAB # 7

This lab will test your ability to work with data structures and loops. ***Due: 11:59pm, Friday, March 22th, 2019***

Question: From your math courses, you may recall that some number sequences can be defined as a cumulative sum of previous terms. With this nature, we can construct a new sequence called K sequence as shown below:

$K(0) = 2;$
$K(1) = 1;$
$K(n) = (K(n-1) + K(n-2))^2, n > 1.$

For this lab, you are to write a function `Kseq(start,stop,step)` that when passed the definition of a sequence of numbers in terms of a start, stop, and step size value, returns the corresponding K sequence as a list.

Sample Inputs and Outputs
Inputs: *(start, stop, step)*
Kseq(0,6,1)
Kseq(2,6,2) *#starts from the 2nd to the 6th number in the sequence, lists them with a step size of 2*

Outputs
[2, 1, 9, 100, 11881, 143544361]
[9, 11881]

TO DO:

- Download the file lab7.py and complete the functions.
- Test and submit your code on MarkUs.

IMPORTANT: Do not change the file name or function names. Do not use input() or print(). Your file should not contain any additional lines of code outside the function definitions. Test cases are provided on MarkUS. Additional tests will be used in grading.