## CSCH 116 <br> 

Your math major friend just heard about something called Fibonacci numbers and thinks the idea is cool. He is trying to generalize the concept and has decided to look at the sequence where

$$
P_{n}=\left\{\begin{array}{c}
0 \text { if } n=0 \\
1 \text { if } n=1 \\
2 P_{n-1}+P_{n-2} \text { if } n>1
\end{array}\right.
$$

He wants you to compute the first $k$ terms of the sequence, where $k$ is specified by him.
Here is a sample output:
Z:\Spring 2015\CSCI 116>sequence 7
0, 1, 2, 5, 12, 29, 70
Press any key to continue...
Z:\Spring 2015\CSCI 116>
Notice that your program has printed out a comma separated list of the first seven numbers of the sequence, counting the 0 and the 1.

