## Fibonacci Numbers using an array

**The goal for this exercise** is to make sure that you can create and use an integer array to solve an interesting (i.e., non-contrived) problem

**What you need to do for this exercise:**

1. In the starter project, add code to the Fibonnaci\_With\_Array class, so that the RunExercise method does the following:  
   1. Create an array of, say, 20 elements
   2. Manually set the first two entries of the array to be 0 and 1
   3. Write a loop which will fill the remainder of the array entries with Fibonacci numbers, where   
        
       Fibonacci(0) = 0  
       Fibonacci(1) = 1  
       Fibonacci(n) = Fibonacci(n – 1) + Fibonacci(n – 2)  
      You should set things up so that Fibonacci(0) is stored in slot 0 of your array, Fibonacci(1) is stored in slot 1, etc.
   4. Print out all the numbers in the array.  
        
        
       Please note that because of the array, you do NOT need to solve this problem recursively. In fact, for this exercise, make sure that you don't solve it recursively – use a loop, instead. If you go looking for help online, you will almost certainly find many, recursive examples.  
        
       Remember that you will need to call the RunExercise method from the Main function in the Program class, and you may need to set the 03\_PCE\_Student\_Code project as the startup project in order to get this to work.
2. There are no autograded tests to run for this exercise