## BubbleSort

**The goal for this exercise** is to familiarize yourself with the bubble sort algorithm by implementing it in code.

The pseudocode for BubbleSort is:

Loop N times, where N is the number of elements in the array

Loop: From the second slot of the array up to the last slot:  
 If (the element in this slot less than the element

in the slot below it\*)

Swap the contents of the slots

\*”below it” means “at the next smaller index”. So if you’re looking at element #2, then the element below that is element #1

Implement the **BubbleSort** method in your **SearchingAndSorting** class. This method takes an unsorted array, and sorts it into ascending order (smallest element in the slot **0**, largest element in slot **.Length-1**). In the case of duplicate values, it doesn't matter which duplicate goes first – for this reason, you sometimes hear the term "nondescending" used instead of "ascending".

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

1. Implement the BubbleSortPerfMeasured method, within the SearchingAndSorting class.