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Team project

Bubble Sort Algoritm

This sorting algorithm scans through an array and rearranges its contents. My bubble sort program arranges the intger array in ascending order. It makes several passes through the elements of the array switches the positions so that the larger values move towards the end of the array with each pass.

It starts by comparing the first two elements in the array. If element 0 is greater than element 1, they are exchanged. This step is repeated with elements 1 and 2 such that if element 1 is greater than element 2, they are exchanged (and so on and so forth),

The outer loop positions ‘lastElement’ to the last position to compare during each pass. The lastElement is the index of the last element in the array. With every iteration, it is decreased by one. It also holds the index of the last element so that it can be compared to its neighbor during a pass through the array.  The index variable is used as an index into the array during each pass.  Lastly the swap variable holds the value of an element temporarily during a swap.

The loop iterates one time for each element in the array. After each iteration, lastElement is decremented. This loop iterates once for each element in the portion of the (unsorted) array. Starting at index 0 and incrementing up to 'lastElement - 1'.