There are pros and cons to the several types of sorting algorithms, bubble sort is one of the longest to run only beaten by selection sort. Quick sort, given the name is quite quick taking the shortest amount of time for the array of 10,000 elements, merge sort is also quite fast. For small arrays insertion sort is the fastest of them all with a blazing 8ms for an array of 100 elements but it gets bogged down with larger array sizes being the second slowest with the 10,000-element array.  
  
