

Once you reach around the length of 200-400, the elapsed times for each method begin to spread. Even in the thousands, the execution time for linked list insertion sort is minimal whereas the execution time for vector insertion sort is growing rapidly. This is because with linked lists once you find the value you need to all you have to do is rearrange the pointers of the different nodes to complete the swap. Your list is complete again after this. For vectors on the other hand you have to shift all of the elements over when you have to insert or delete an element. The shifting of all of the vectors is the reason for the increased length in time of the vector sort.