1C) Best Case: 81100 Nano Time

1D) Worst Case: 90282600 Nano Time

1E) Best Case: 1213400 Nano Time

Worst Case: 5144712000 Nano Time

It increased by 100 fold.

2B) [32, 58, 18, 19, 27, 55, 76, 65, 45, 2, 8, 61, 76, 73, 28, 61]

[2, 8, 18, 19, 27, 28, 32, 45, 55, 58, 61, 61, 65, 73, 76, 76]

3A) Insertion sort: 364700463200 Millis

Merge sort: 150 Milis

Yes, merge is significantly faster than insertion

3B) 43