16. [4] Draw out how Mergesort would sort this list:

24	16	9	10	8	7	20

24 16	9 10
24 16	9	10
	9	10
16 24

| 9 | 10 | 16 | 24 |

8 7	20
8 7	20
7 8	20
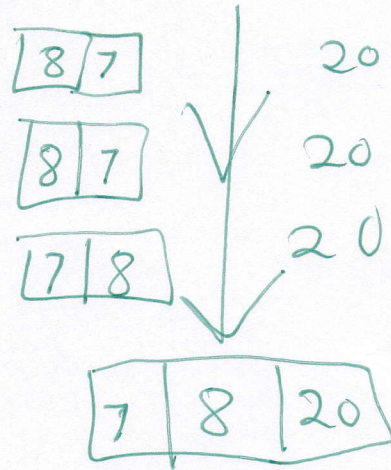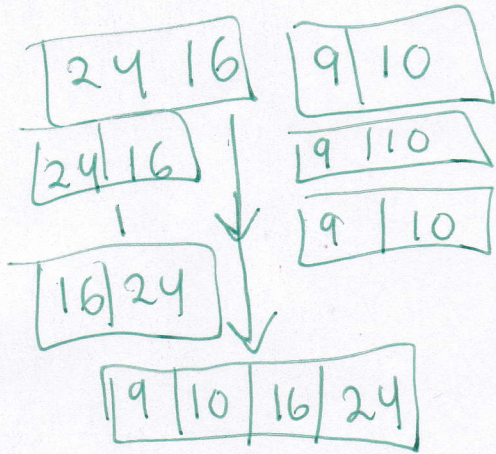
| 7 | 8 | 20 |

| 7 | 8 | 9 | 10 | 16 | 20 | 24 |

1) 1st split the array up.

2) then split the smaller groups in this case of twos

3) then check each two's group (starting with the left till it gets back togther) to see if element (0)<(1) if not swap

then do the same to the right side (9,10)

4) then merge 16,24 and 9,10 togther in order

5) then Repeat steps 2-4 on 8,7,20

6) then merge 9 10 16 24 and 7 8 20

7) together least to greatest!

done