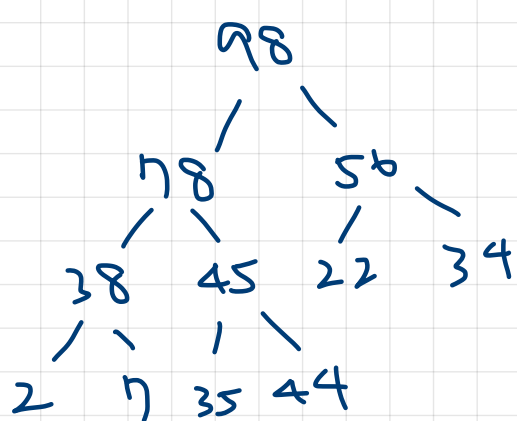


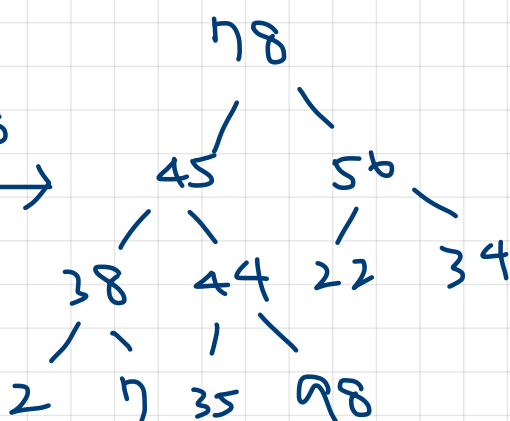
1.

23 3 7 13 89 7 66 2 6 44 18 90 98 57
 ⇒ 13 3 7 23 89 7 44 2 6 66 18 90 98 57
 ⇒ 13 2 7 23 3 7 44 18 6 66 57 90 98 89
 13 2 6 23 3 7 44 18 7 66 57 90 98 89 #

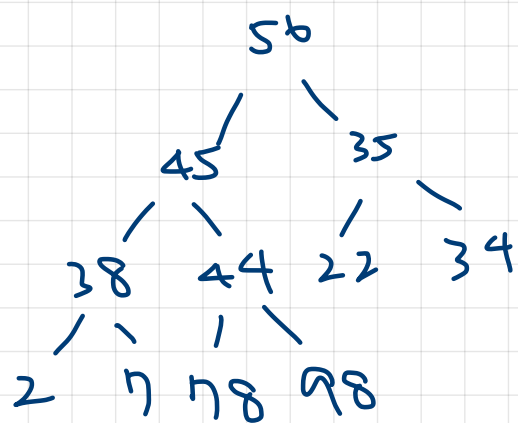
2.



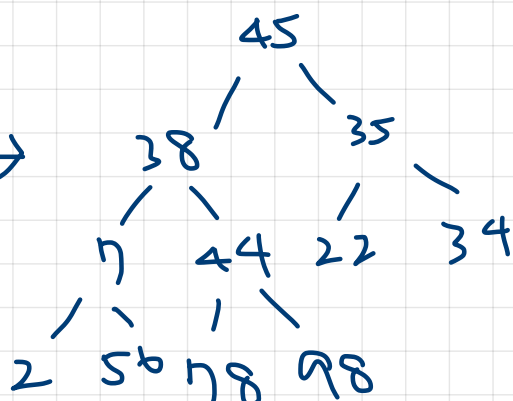
after 1 pass



after 1 pass



after 1 pass



Hence 45 38 35 7 44 22 34 2 56 78 98

3.

44 78 22 7 98 56 34 2 38 35 45

pivot

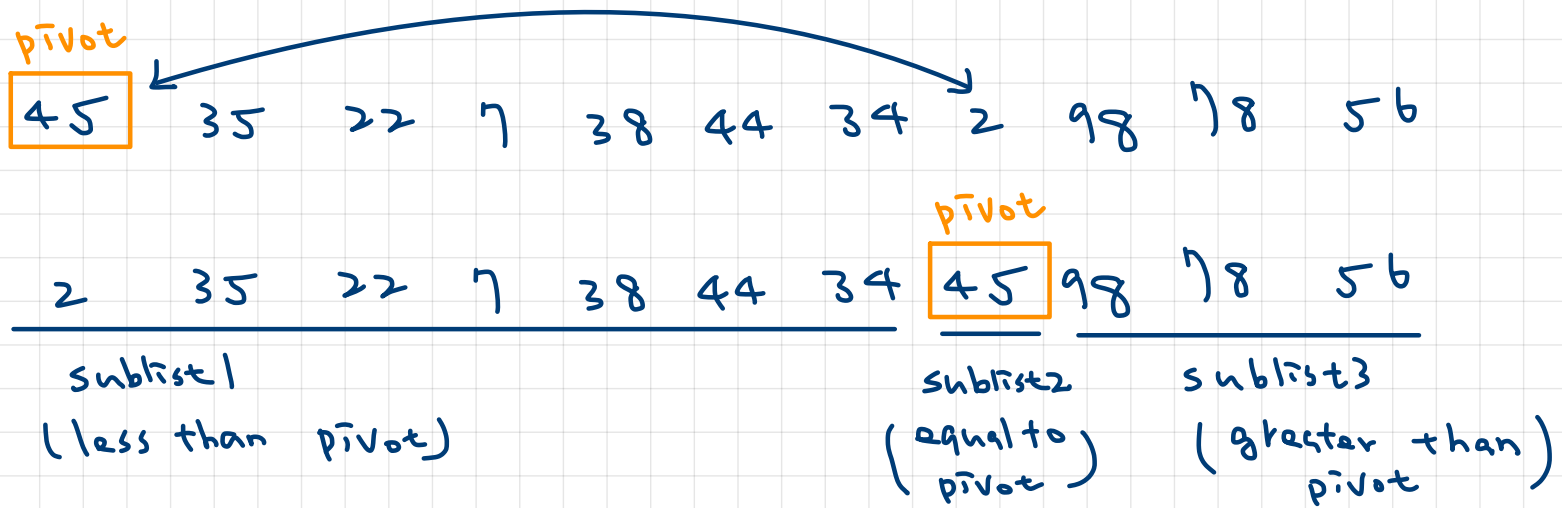
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78 22 7 98 44 34 2 38 35 56

pivot

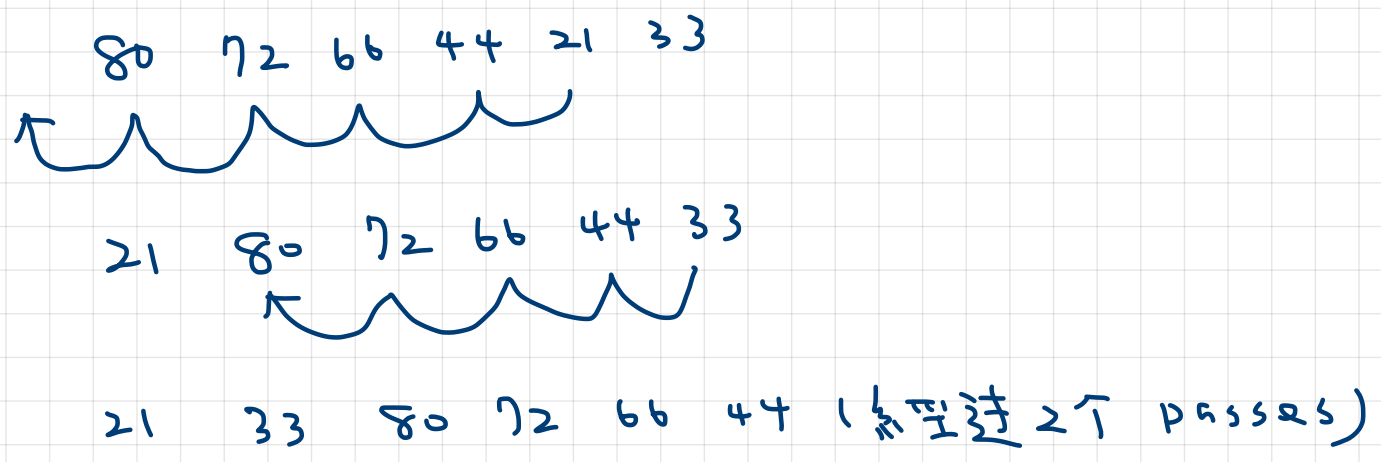
45

35 22 7 98 44 34 2 38 78 56



4. bubble sort

∴ 每经过一次, bubble sort 可以把一个最小值排好序



5. phase 1.

File 1: 6 12 13 19 21 23 27 28 29 34 9 10 15 25 35

File 2: 7 8 11 17 20 25 30 36 37 39

phase 2.

File 1: 6 7 8 11 12 13 17 19 20 21 23 25 27 28 29 30 34 36 37 39

File 2: 9 10 15 25 35

phase 3.

File 1: 6 7 8 9 10 11 12 13 15 17 19 20 21 23 25 25 27 28 29 30 34 35 36 37 39