1.A. Bubble Sort (Ascending)

Round 1: 6 14 18 7 23 2 47 16 38 83

Round 2: 6 14 7 18 2 23 16 38 47 83

Round 3: 6 7 14 2 18 16 23 38 47 83

Round 4: 6 7 2 14 16 18 23 38 47 83

Round 5: 6 2 7 14 16 18 23 38 47 83

Round 6: 2 6 7 14 16 18 23 38 47 83 (Sorted)

B. Selection Sort (Ascending)

Step 1: 2 6 23 18 7 47 14 83 16 38

Step 2: 2 6 7 18 23 47 14 83 16 38

Step 3: 2 6 7 14 23 47 18 83 16 38

Step 4: 2 6 7 14 16 47 18 83 23 38

Step 5: 2 6 7 14 16 18 47 83 23 38

Step 6: 2 6 7 14 16 18 23 83 47 38

Step 7: 2 6 7 14 16 18 23 38 47 83 (Sorted)

C. Insertion Sort (Ascending)

Step 1: 6 14 23 18 7 47 2 83 16 38

Step 2: 6 14 18 23 7 47 2 83 16 38

Step 3: 6 7 14 18 23 47 2 83 16 38

Step 4: 2 6 7 14 18 23 47 83 16 38

Step 5: 2 6 7 14 16 18 23 47 83 38

Step 6: 2 6 7 14 16 18 23 38 47 83 (Sorted)

2.A. Quick Sort

[14 6 23 18 7 47 2 83 16 38]  
Pivot = 38  
Left: [14 6 23 18 7 2 16]  
Right: [47 83]  
Left di-Quick Sort lagi:  
 Pivot = 16  
 Left: [14 6 2 7]  
 Right: [23 18]

B. Merge Sort

[14 6 23 18 7 47 2 83 16 38]  
→ [14 6 23 18 7] & [47 2 83 16 38]  
→ [14 6] [23 18 7] & [47 2] [83 16 38]  
→ [14] [6] [23] [18] [7] & [47] [2] [83] [16] [38]  
→ Gabungkan secara berurutan sampai menjadi satu array terurut