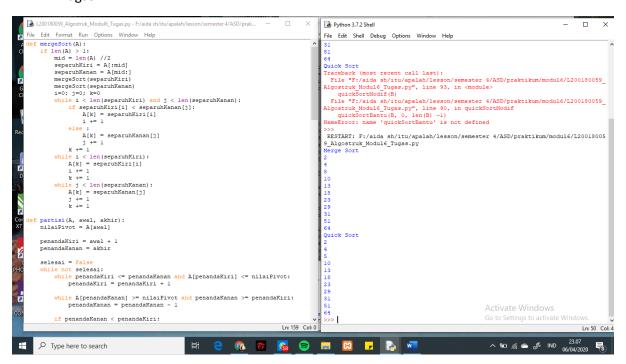
Nama: Abid Muhammad Taufiq

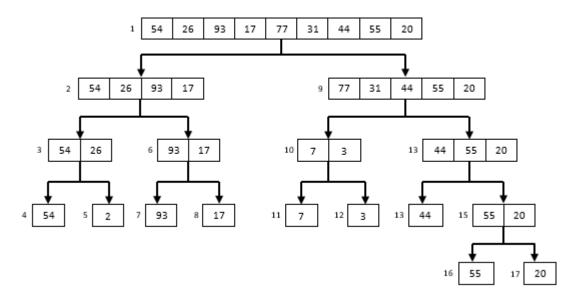
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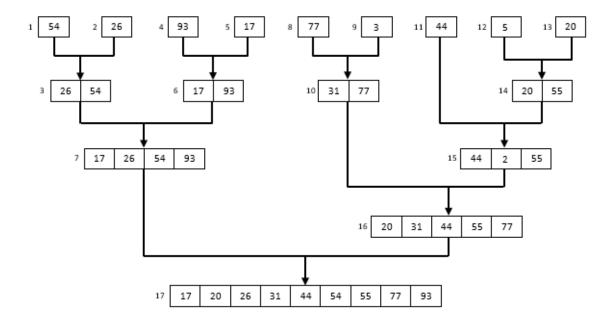
Kelas: C

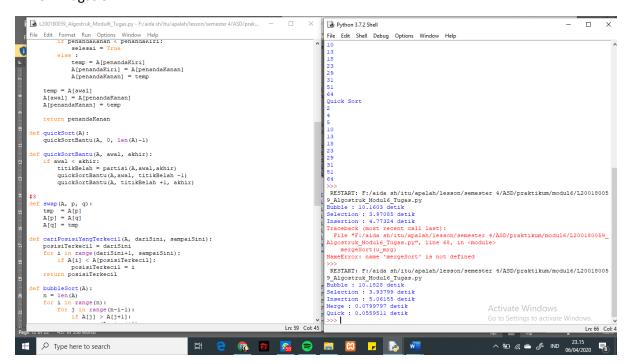
### Modul 6

# 1. Tugas 1



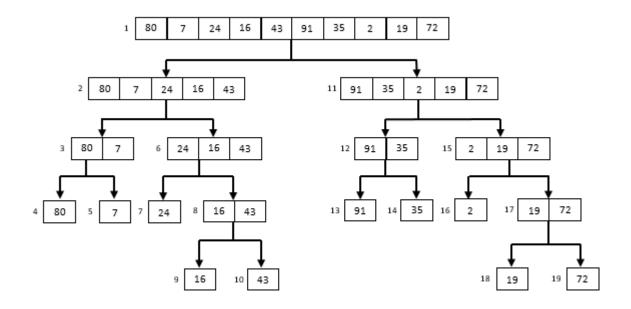


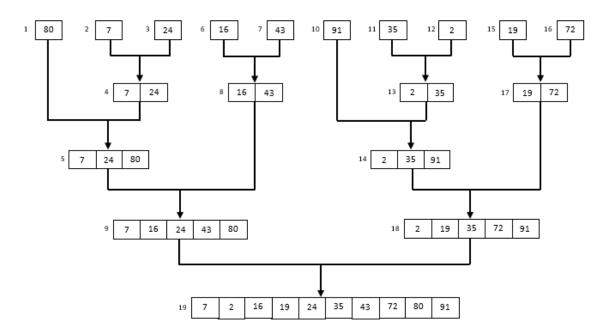




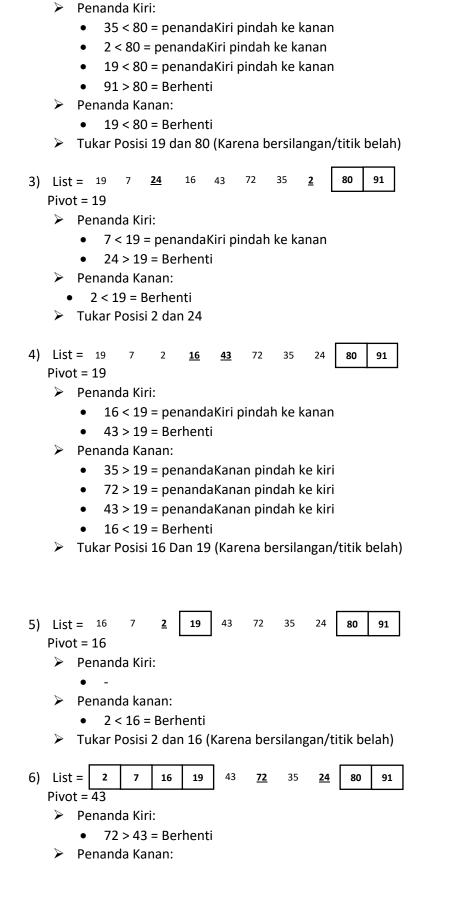
# 4. Tugas 4 Diberikan list L = [80, 7, 24, 16, 43, 91, 35, 2, 19, 72]

a.  $Menggambar\ trace\ pengurutan^{10}\ untuk\ algoritma\ mergeSort$ 





- b. Menggambar trace pengurutan<sup>10</sup> untuk algoritma quickSort
- 1) List = 80 7 24 16 43 <u>91</u> 35 2 19 <u>72</u> Pivot = 80
  - Penanda Kiri:
    - 7 < 80 = penandaKiri pindah ke kanan
    - 24 < 80 = penandaKiri pindah ke kanan
    - 16 < 80 = penandaKiri pindah ke kanan
    - 43 < 80 = penandaKiri pindah ke kanan</li>
    - 91 > 80 = Berhenti
  - > Penanda kanan:
    - 72 < 80 = Berhenti
  - > Tukar Posisi 72 dan 91



24

2) List = 80 7

Pivot = 80

43

16

72

35

<u>19</u>

<u>91</u>

- 24 < 43 = Berhenti
- Tukar Posisi 24 dan 72
- 7) List = 2 7 16 19 43 24 <u>35</u> <u>72</u> 80 91 Pivot = 43
  - Penanda Kiri:
    - 35 < 43 = penandaKiri pindah ke kanan
    - 72 > 43 = Berhenti
  - Penanda Kanan:
    - 35 < 43 = Berhenti
  - Tukar Posisi 35 dan 43 (Karena bersilangan/titik belah)
- 8) List = 2 7 16 19 35 24 43 72 80 91 Pivot = 35
  - Penanda Kiri:
    - •
  - Penanda kanan:
    - 24 < 35 = Berhenti
  - Tukar posisi 24 dan 35 (Karena bersilangan/titik belah)
- 9) Hasil = 2 7 16 19 24 35 43 72 80 91

