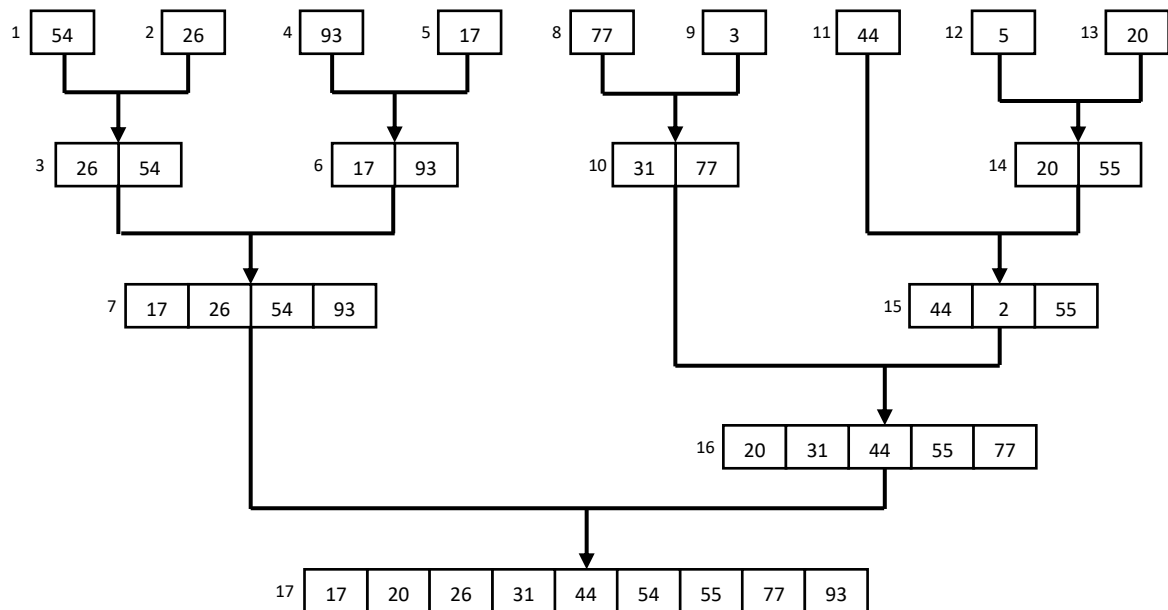
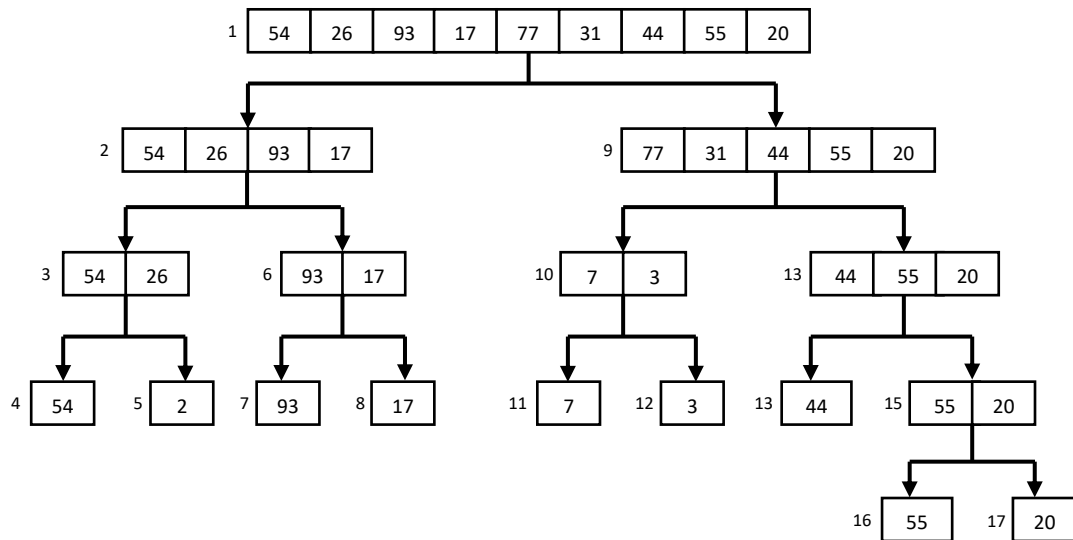


Nama : Ridwan Renaldi

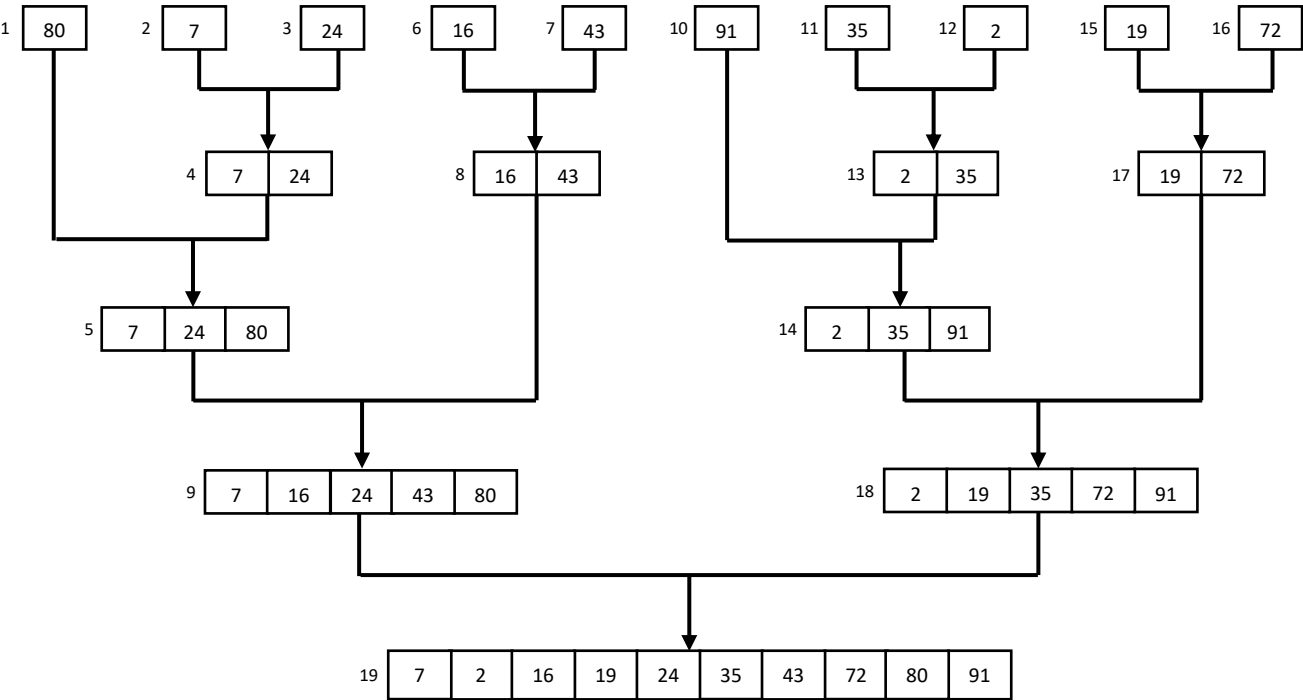
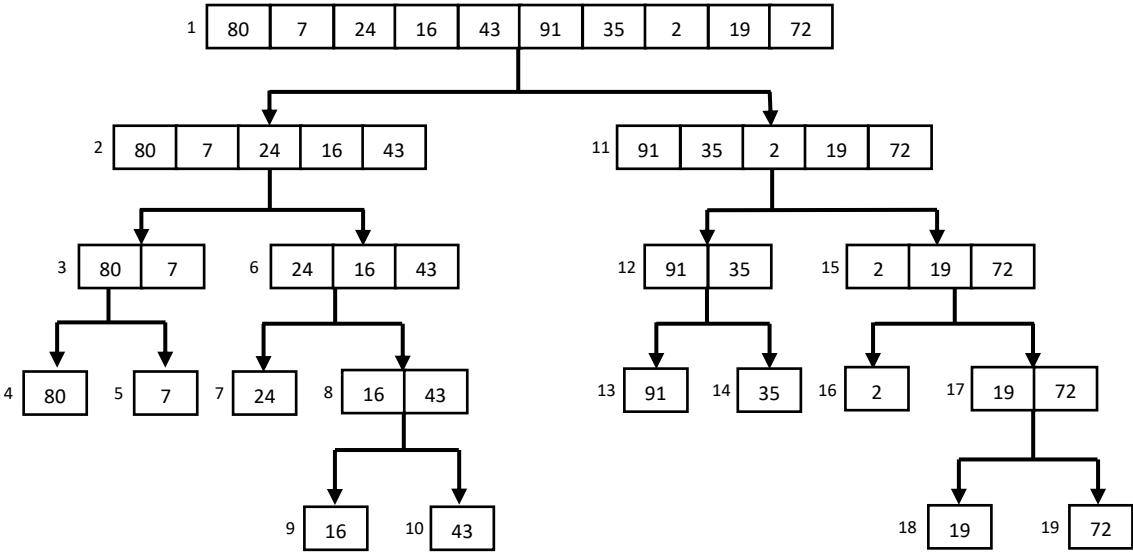
NIM : L200160026

Kelas : B

2. Merge Sort



4. Merge Sort



Quick Sort

1. List = 80 7 24 16 43 91 35 2 19 72

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
- $91 > 80$ = Berhenti

➤ Penanda kanan:

- $72 < 80$ = Berhenti

➤ Tukar Posisi 72 dan 91

2. List = 80 7 24 16 43 72 35 2 19 91

Pivot = 80

➤ Penanda Kiri:

- $35 < 80$ = penandaKiri pindah ke kanan
- $2 < 80$ = penandaKiri pindah ke kanan
- $19 < 80$ = penandaKiri pindah ke kanan
- $91 > 80$ = Berhenti

➤ Penanda Kanan:

- $19 < 80$ = Berhenti

➤ Tukar Posisi 19 dan 80 (Karena bersilangan/titik belah)

3. List = 19 7 24 16 43 72 35 2

| | |
|----|----|
| 80 | 91 |
|----|----|

Pivot = 19

➤ Penanda Kiri:

- $7 < 19$ = penandaKiri pindah ke kanan
- $24 > 19$ = Berhenti

➤ Penanda Kanan:

- $2 < 19$ = Berhenti

➤ Tukar Posisi 2 dan 24

4. List = 19 7 2 16 43 72 35 24

| | |
|----|----|
| 80 | 91 |
|----|----|

Pivot = 19

➤ Penanda Kiri:

- $16 < 19$ = penandaKiri pindah ke kanan
- $43 > 19$ = Berhenti

➤ Penanda Kanan:

- $35 > 19$ = penandaKanan pindah ke kiri
- $72 > 19$ = penandaKanan pindah ke kiri
- $43 > 19$ = penandaKanan pindah ke kiri
- $16 < 19$ = Berhenti

➤ Tukar Posisi 16 Dan 19 (Karena bersilangan/titik belah)

5. List = 16 7 2

| |
|----|
| 19 |
|----|

 43 72 35 24

| | |
|----|----|
| 80 | 91 |
|----|----|

Pivot = 16

➤ Penanda Kiri:

• -

➤ Penanda kanan:

• $2 < 16 = \text{Berhenti}$

➤ Tukar Posisi 2 dan 16 (Karena bersilangan/titik belah)

6. List =

| | | | |
|---|---|----|----|
| 2 | 7 | 16 | 19 |
|---|---|----|----|

 43 72 35 24

| | |
|----|----|
| 80 | 91 |
|----|----|

Pivot = 43

➤ Penanda Kiri:

• $72 > 43 = \text{Berhenti}$

➤ Penanda Kanan:

• $24 < 43 = \text{Berhenti}$

➤ Tukar Posisi 24 dan 72

7. List =

| | | | |
|---|---|----|----|
| 2 | 7 | 16 | 19 |
|---|---|----|----|

 43 24 35 72

| | |
|----|----|
| 80 | 91 |
|----|----|

Pivot = 43

➤ Penanda Kiri:

• $35 < 43 = \text{penandaKiri pindah ke kanan}$

• $72 > 43 = \text{Berhenti}$

➤ Penanda Kanan:

• $35 < 43 = \text{Berhenti}$

➤ 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:

• $24 < 35 = \text{Berhenti}$

➤ Tukar posisi 24 dan 35 (Karena bersilangan/titik belah)

9. Hasil =

| | | | | | | | | | |
|---|---|----|----|----|----|----|----|----|----|
| 2 | 7 | 16 | 19 | 24 | 35 | 43 | 72 | 80 | 91 |
|---|---|----|----|----|----|----|----|----|----|