

# PRAKTIKUM ALGORITMA DAN STRUKTUR DATA

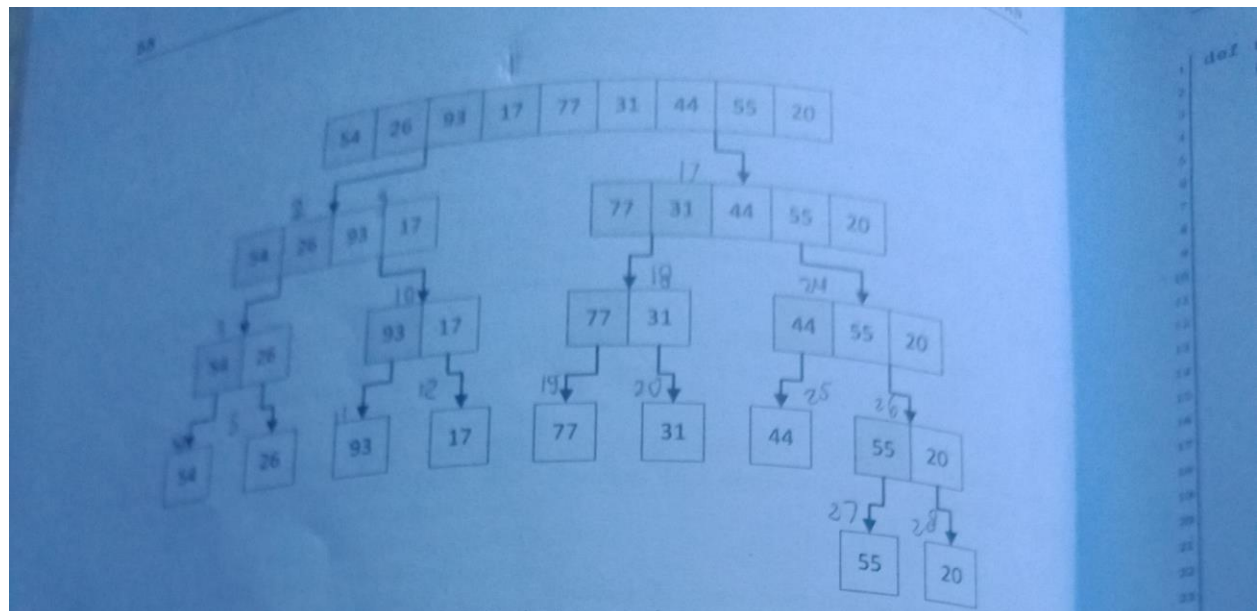
## MODUL 6

Nama : Dewantara Surya Jaya

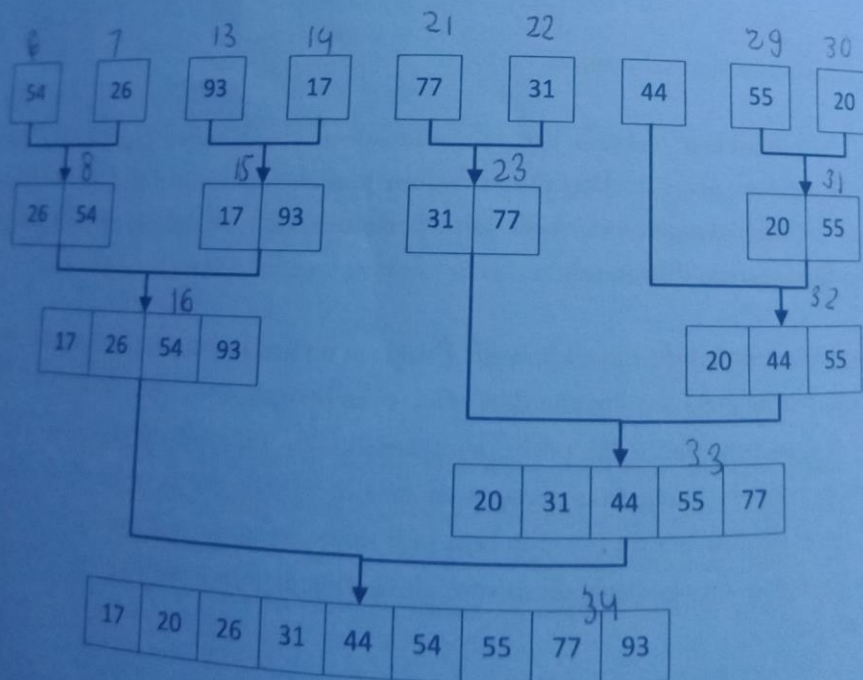
NIM : L200180013

```
2 4 5 10 13 18 23 29 31 51 64
230000 230000 235000 240000 240000 245000 245000 250000 250000 270000
bubble: 8.36955 detik
selection: 3.85826 detik
insertion: 7.9389 detik
merge: 0.0729873 detik
quick: 0.0410001 detik
[12, 13, 45]
sorted:
[124, 123, 15, 12, 4]
merge : 0.0820773 detik
quick : 0.0419965 detik
merge mod : -0.00700283 detik
quick mod : -0.120003 detik
List 1 :
3
7
12
13
16
List 2 :
1
9
10
Merged List :
1
3
7
9
10
12
13
16
```

2.

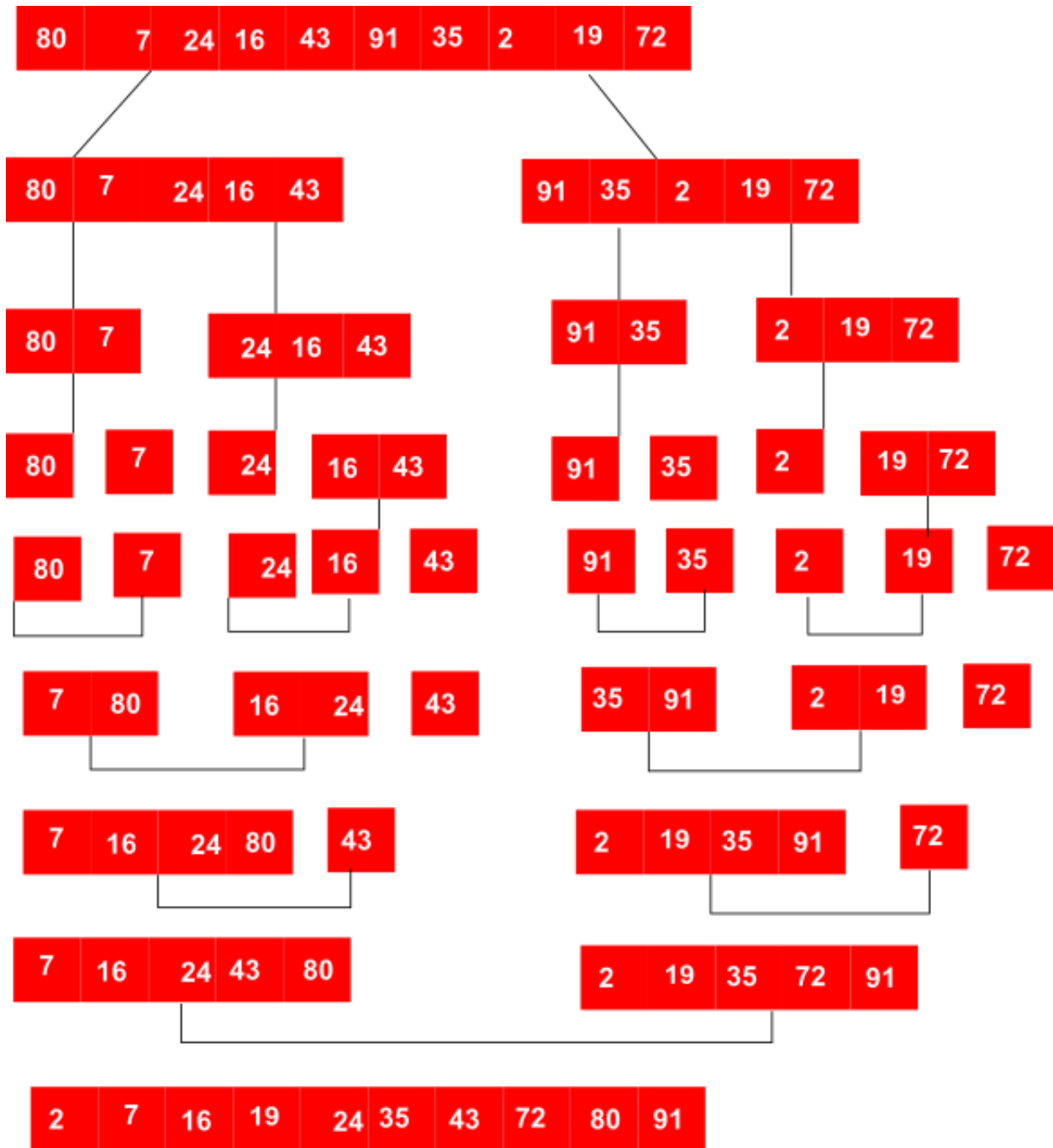


Gambar 6.1: Membelah list sampai tiap sub-list berisi satu elemen atau kosong. Sesudah itu digabung seperti ditunjukkan di Gambar 6.2.



Gambar 6.2: Menggabungkan list satu demi satu.

4. a.



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

7	72	80
---	----	----

7	24	72	80
---	----	----	----

7	24	16	72	80
---	----	----	----	----

7	24	16	43	72	80
---	----	----	----	----	----

7	24	16	43	72	80	91
---	----	----	----	----	----	----

7	24	16	43	35	72	80	91
---	----	----	----	----	----	----	----

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

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

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

7	19
---	----

7	19	24
---	----	----

7	16	19	24
---	----	----	----

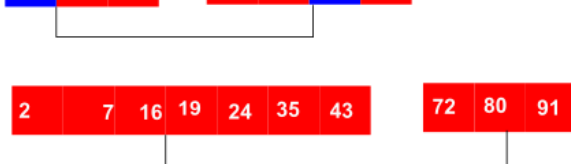
7	16	19	24	43	35
---	----	----	----	----	----

7	16	2	19	24	43	35
---	----	---	----	----	----	----

7	16	2	19	24	43	35
---	----	---	----	----	----	----

2	7	16	19	24	35
---	---	----	----	----	----

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