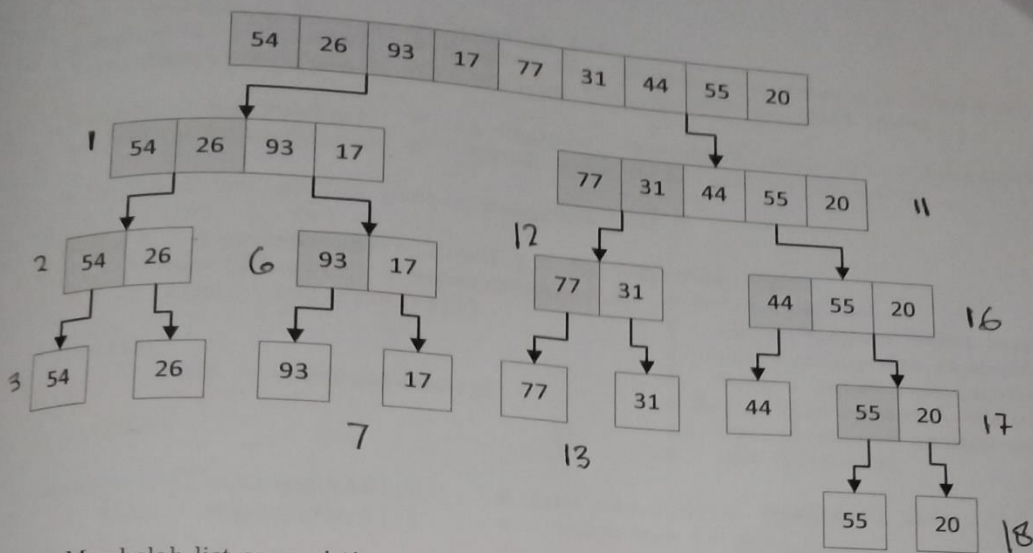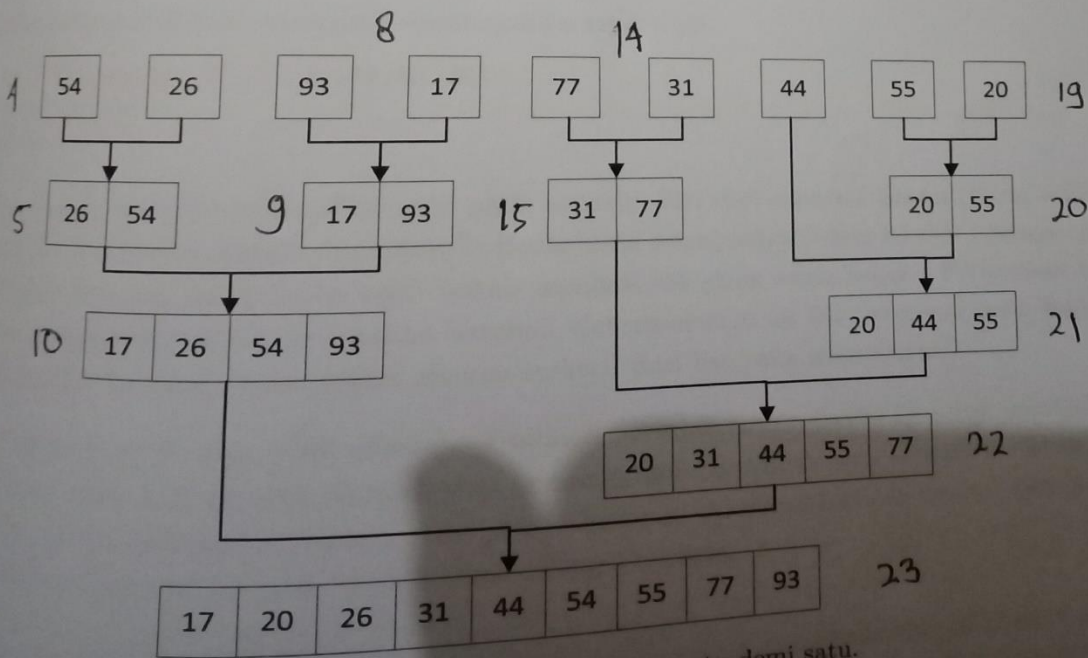**Nama** : Ilham Athur Bayu W
NIM/Kelas :L200170023/ A
Modul ke :6

No.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.

No.4(A)

MergeSort

L=[80,7,24,16,43,91,35,2,19,72]

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

Proses 1

| 7 | 80 | | 26 | 24 | | 43 | 91 | | 2 | 35 | | 19 | 72 |

Proses 2

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

Proses 3

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

Proses 4

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

No.4(B)

QuickSort

L=[80,7,24,16,43,91,35,2,19,72]

80	7	24	16	43	91	35	2	19	72

pivot

80	7	24	16	43	91	35	2	19	72

Low   High

                                           pivot

72	7	24	16	43	91	35	2	19	80

Low   High

                                           pivot

72	7	24	16	43	91	35	2	19	80

                           Low   High

                           pivot

72	7	24	16	43	80	35	2	19	91

                           Low   High

                                       pivot

72	7	24	16	43	19	35	2	80	91

                           Low   High

pivot

72	7	24	16	43	19	35	2	80	91

Low   High

                      pivot

2	7	24	16	43	19	35	72	80	91

Low   High

pivot

2	7	24	16	43	19	35	72	80	91

Low   High

        pivot

2	7	24	16	43	19	35	72	80	91

      Low   High

          pivot

2	7	24	16	43	19	35	72	80	91

       Low   High

          pivot

2	7	24	16	43	19	35	72	80	91

       Low   High

               pivot

2	7	19	16	43	24	35	72	80	91

       Low   High

               pivot

2	7	19	16	43	24	35	72	80	91

             Low   High

               pivot

2	7	19	16	24	43	35	72	80	91

             Low   High

         pivot

2	7	19	16	24	43	35	72	80	91

      Low   High

           pivot

2	7	16	19	24	43	35	72	80	91

      Low   High

               pivot

2	7	16	19	24	43	35	72	80	91

             Low   High

				pivot				
2	7	16	19	24	35	43	72	80	91

Low   High

2	7	16	19	24	35	43	72	80	91