Nama   : Astrin Indah Melliana
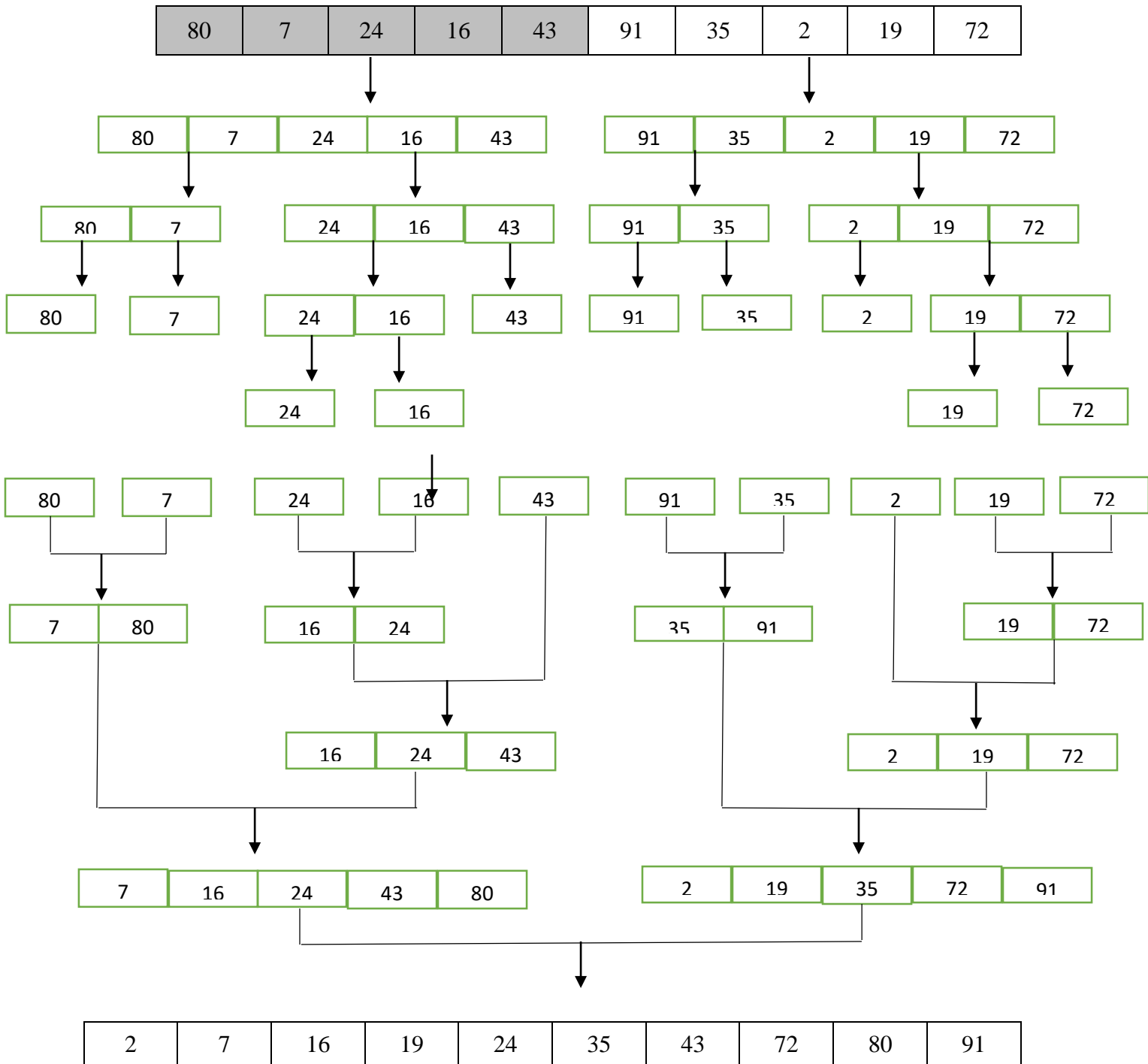
Kelas   : A

Nim   : L200170013

2. Beri nomor urut eksekusi proses.

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.
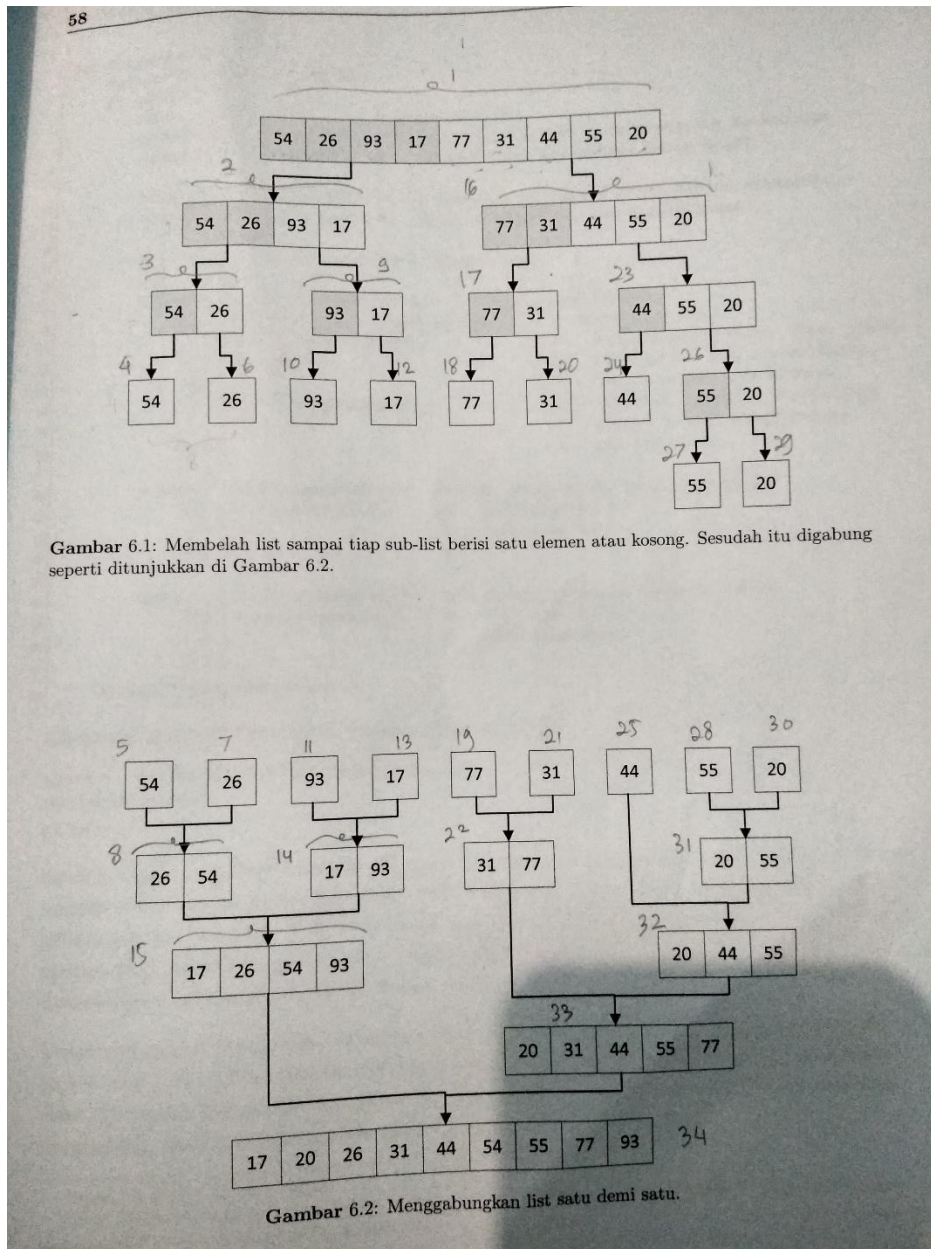
4. Diberikan list L = [80,7,24,16,43,91,35,2,19,72], gambarlah trace pengurutan[10] untuk algoritma :

a. Merge Sort

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

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

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

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

| 24 | | 16 | | | 19 | | 72 |

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

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

| 16 | 24 | 43 | | 2 | 19 | 72 |

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

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

b. Quick Sort

| 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