# LAPORAN AKHIR

Mata Praktikum : Struktur Data

Kelas : 2IA16

Praktikum ke - : 7

Tanggal : Sabtu, 27 November 2021

Materi : Sort

NPM : 50420093

Nama : Ajay Alfredo Almani

Ketua Asisten : Thomas Adya Dewangga

Nama Asisten :

Paraf Asisten :

Jumlah Lembar : 5 Lembar



# LABORATORIUM TEKNIK INFORMATIKA UNIVERSITAS GUNADARMA

**2021**

**Soal LA Pert 7**

LA Pert 7

* Lakukan proses Sort dari NPM masing - masing (minimal 5 elemen array).
* Dari Video Materi Pert 7, lakukan sort menggunakan 3 algoritma sort.
* Boleh dikerjakan dengan tulis tangan (foto/scann) atau diketik dengan word.
* Buat menggunakan format LA; Cover - Listing (NPM masing-masing) - Logika (Proses 3 algoritma sort) - Output (Hasil Sort)
* Kumpulkan dalam bentuk PDF dengan format Nama\_Kelas\_NPM\_Strukdat\_LA7

**A. Bubble Short**

* **Iterasi 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 50 | 4 | 20 | 0 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 50 | 20 | 0 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 20 | 50 | 0 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 20 | 0 | 50 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 20 | 0 | 50 | 93 |

* **Iterasi 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 20 | 0 | 50 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 0 | 20 | 50 | 93 |

* **Iterasi 3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 0 | 20 | 50 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

* **Sorted**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

**B. Selection Sort**

* **Iterasi 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 50 | 4 | 20 | 0 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 50 | 20 | 0 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 50 | 20 | 0 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 50 | 20 | 4 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 50 | 20 | 4 | 93 |

* **Iterasi 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 50 | 20 | 4 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 20 | 50 | 4 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 50 | 20 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 50 | 20 | 93 |

* **Iterasi 3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 50 | 20 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

* **Sorted**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

**C. Quick Sort**

* **Iterasi 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 50 | 4 | 20 | 0 | 93 |

Pivot = 50

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 20 | 4 | 50 | 93 |

* **Iterasi 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 20 | 4 | 50 | 93 |

Pivot = 0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 20 | 4 | 50 | 93 |

* **Iterasi 3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 20 | 4 | 50 | 93 |

Pivot = 20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

* **Iterasi 4**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

Pivot = 4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

* **Iterasi 5**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

Pivot = 93

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

* **Sorted**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

**OUTPUT**

**A. Bubble Sort**

**Sorted :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

**B. Selection Sort**

**Sorted :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |

**C. Quick Sort**

**Sorted :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | 4 | 20 | 50 | 93 |