**TUGAS PRAKTIKUM ANALISIS ALGORITMA**

REKURENSI DAN PARADIGMA ALGORITMA DIVIDE & CONQUER



Oleh:

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Program Studi S-1 Teknik Informatika

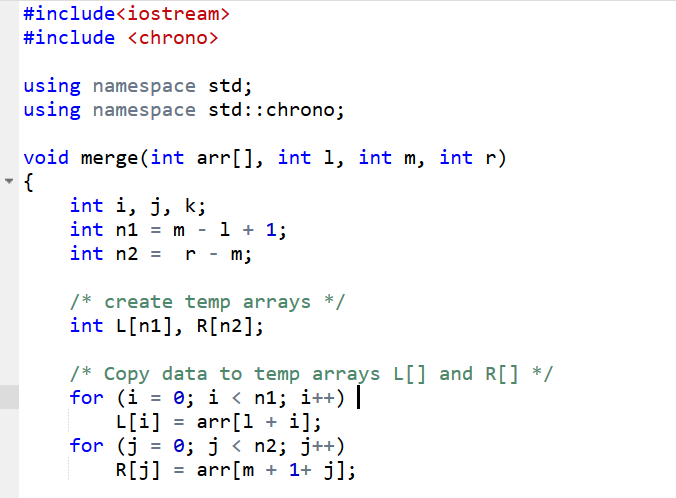
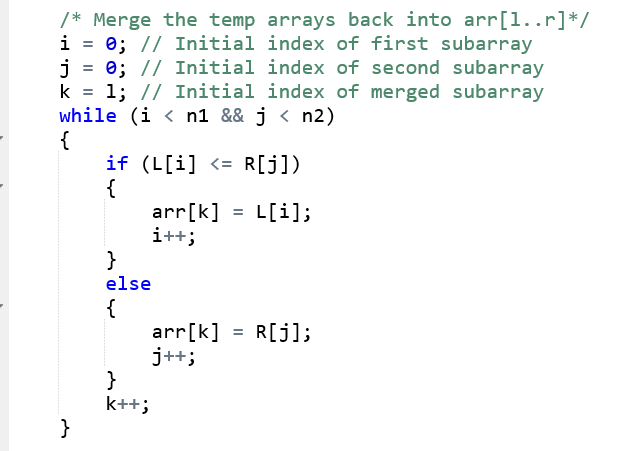
Fakultas Matematika dan Ilmu Pengetahuan Alam

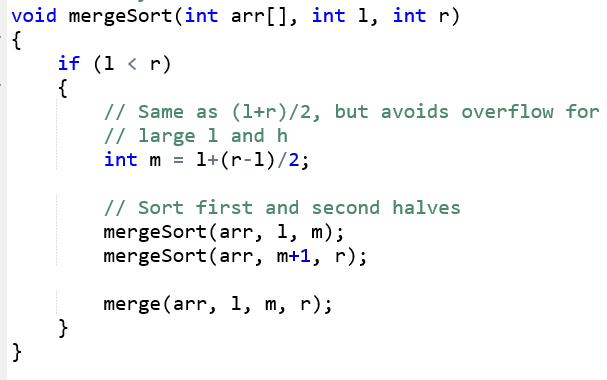
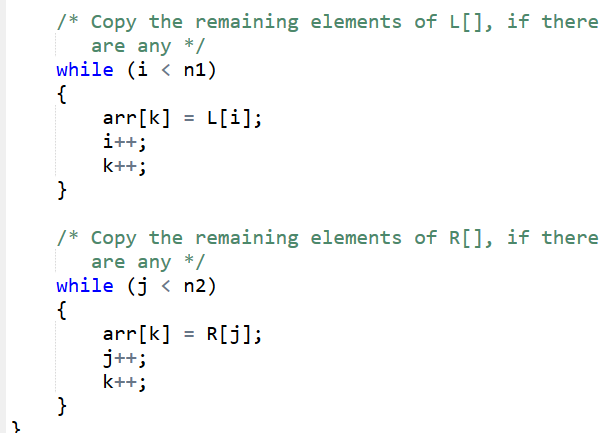
Universitas Padjadjaran

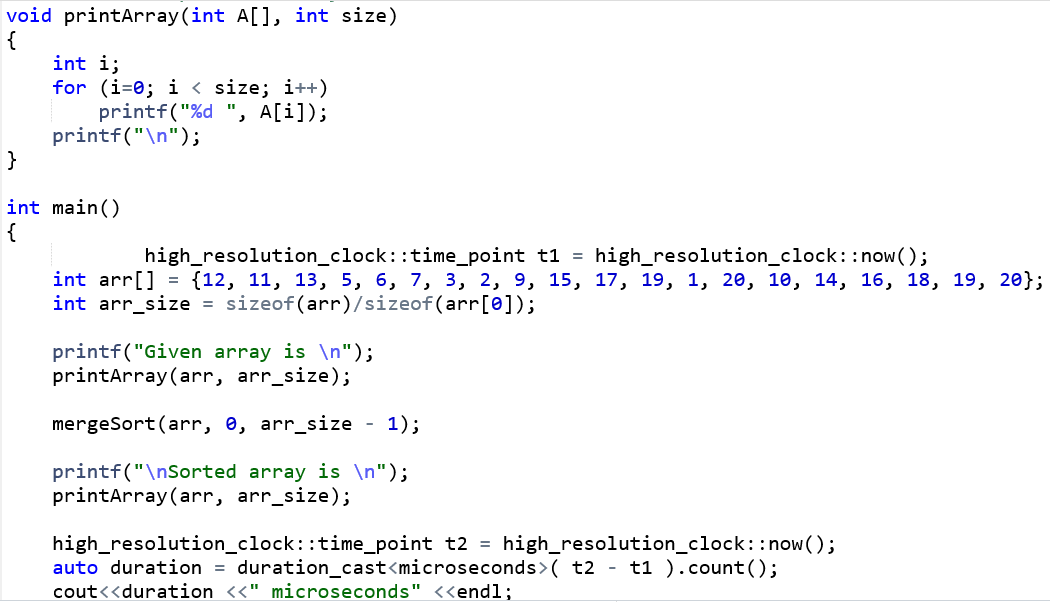
2019

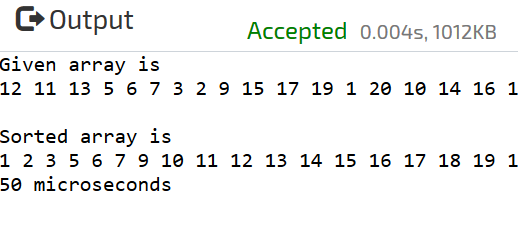
SK1 : Merge Sort

1. Kodingan





1. Running time dengan input 20: 50 micro second  
   

SK2: Selection Sort

* Kompleksitas Waktu : T(n) = n(n – 1 )/2

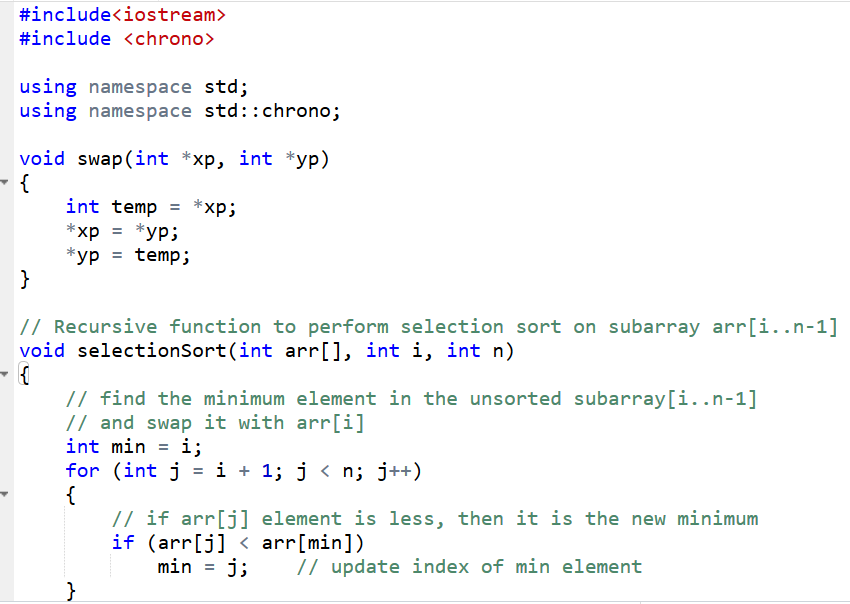
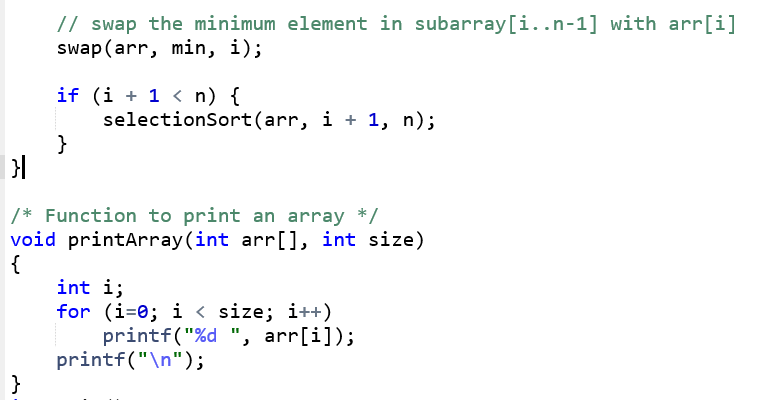
Big-O : O(n2)

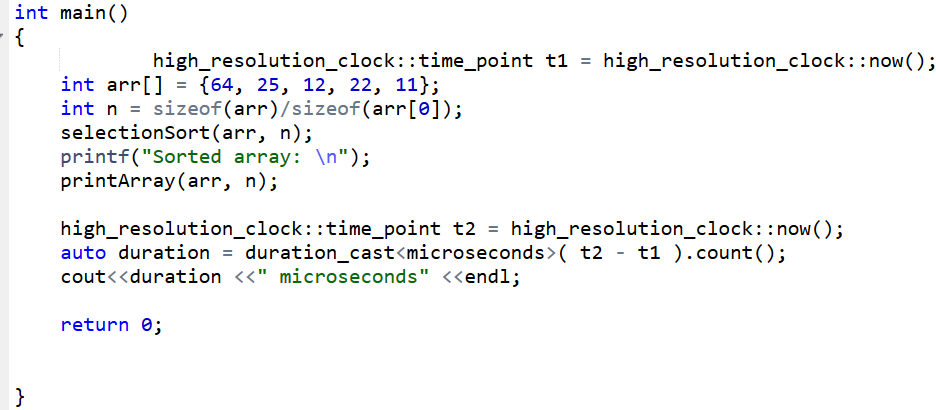
Big-Ω : Ω(n2)

Big-O = Big-Ω = Big – Θ = Θ(n2)  
(kuadratik)

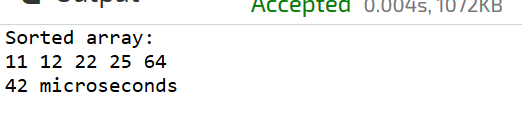
* Kodingan :

Running Time : 42 micro second



Output:



SK3:Insertion Sort

* Kompleksitas Waktu: T(n) = n2-n

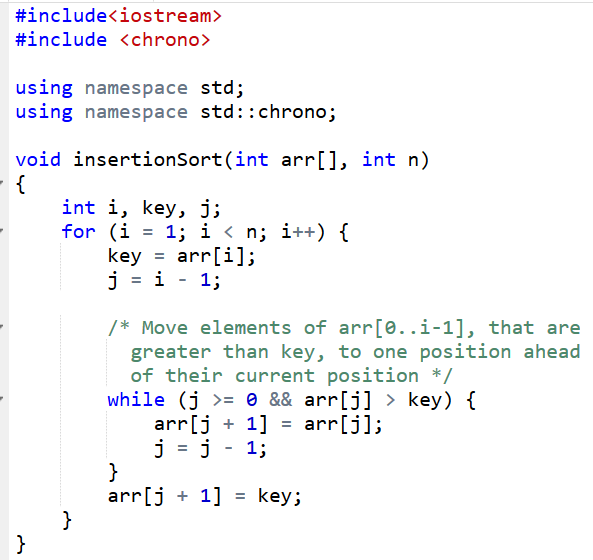
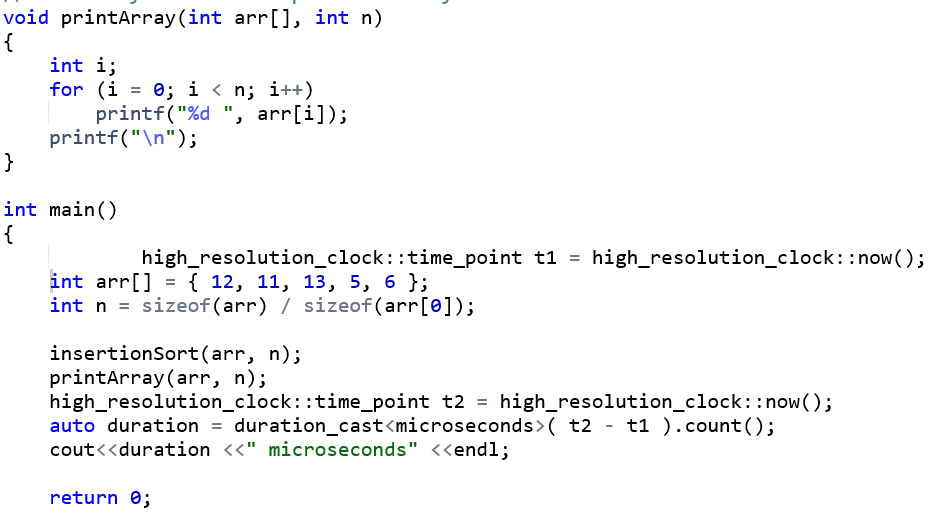
Big-O : O(n2)

Big-Ω : Ω(n2)

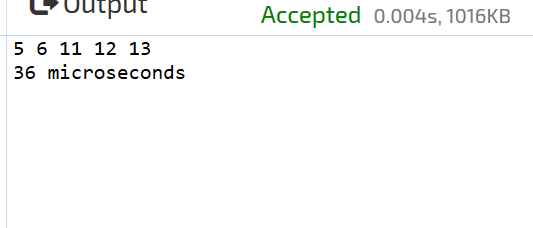
Big-O = Big-Ω = Big – Θ = Θ(n2)  
(kuadratik)

* Kodingan:

Running Time: 36 micro seconds

Output:



SK4: Bubble Sort

* Kompleksitas Waktu : T(n) : n2 + n

Big-O : O(n2)

Big-Ω : Ω(n2)

Big-O = Big-Ω = Big – Θ = Θ(n2)  
(Kuadratik)

* Kodingan:

Running Time: 40 micro second

