Nama : Annas Fagiat

Kelas : D

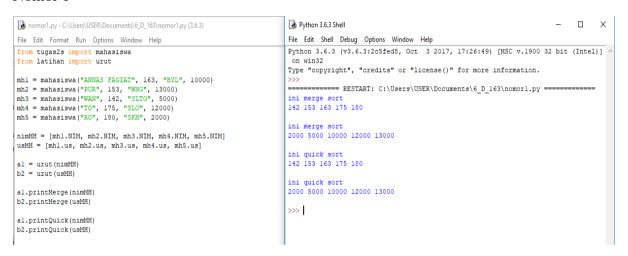
Nim : L200170163

LAPORAN PRAKTIKUM

ALGORTIMA DAN STRUKTUR DATA

MODUL KE 6

Nomor 1



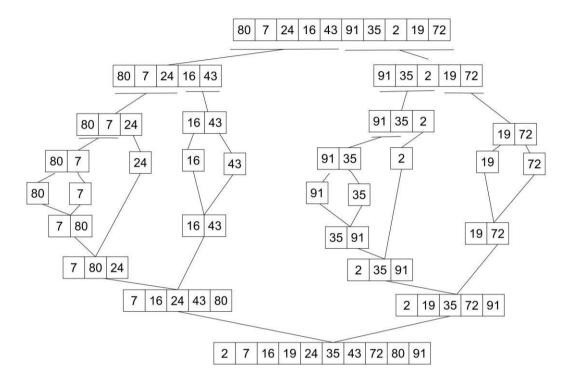
Nomor 2

-

Nomor 3

```
nomor3.py - C:\Users\USER\Documents\6_D_163\nomor3.py (3.6.3)
                                                                                                                                                       Python 3.6.3 Shell
                                                                                                                                                                                                                                                                                                                 - □ ×
 File Edit Format Run Options Window Help
                                                                                                                                                        File Edit Shell Debug Options Window Help
from time import time as detak
from random import shuffle as kocok
import time
k = [i for i in range(1,6001)]
kocok(k)
                                                                                                                                                        Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 17:26:49) [MSC v.1900 32 bit (Intel)]
                                                                                                                                                       Type "copyright", "credits" or "license()" for more information.
                                                                                                                                                       >>> 
Bestart: C:\Users\USER\Documents\6_D_163\nomor3.py bubble : 4.28377 detik selection : 2.0518 detik insertion : 2.0518 detik merge : 0.0312176 detik merge : 0.0312176 detik you'dk : 0.0312424 detik >>> 
 def bubb (arr):
       bub(arr):
    n = len(arr)
for i in range(n):
    for j in range(0, n-i-1):
        if arr[j] > arr[j+1]:
            arr[j], arr[j+1] = arr[j+1], arr[j]
 def sele(A):
         for i in range(len(A)):
                fi in range(len(A));
min idx = i
for j in range(i+1, len(A));
    if A[min_idx] > A[j];
    min_idx = j
A[i], A[min_idx] = A[min_idx], A[i]
 def inse(arr):
        inse(arr):
for i in range(1, len(arr)):
    key = arr[i]
    j = i-1
    while j >=0 and key < arr[j]:
        arr[j+1] = arr[j]
        j -= 1
    arr[j+1] = key</pre>
arr[j+1] = key
def mergeSort(arr):
    if len(arr) > 1:
        mid = len(arr) / 2
        L = arr[:mid]
        R = arr[mid]
        mergeSort(L)
        mergeSort(R)
        i = j = k = 0
        while i < len(L) and j < len(R):
        if L[i] < R[j]:</pre>
```

Nomor 4 A (Tracing Algorithm Merge Sort)



Nomor 4 B (Tracing Algorithm Quick Sort)

-

Nomor 5 (Merge Sort tanpa Slicing, menggunakan recursive)

```
| Section | Sect
```

Nomor 6 (Quick Sort dengan Median of Three)

Nomor 7

Nomor 8 (Merge Sort dengan Linked List)