Praktikum Algostruk Modul 4

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Kelas : A

Latihan

Linier Search

4.1

```
| Section | Python 3.7.4 Shell | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32 | Type "help", "copyright", "credits" or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit Intelligence or "license()" for more information. | Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22
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4.2

Linked List

```
latihan3.py - E:/algostruk/MODUL_4/latihan3.py (3.7.4)
                                                                                                                                                                                                                                                                         Python 3.7.4 Shell
File Edit Format Run Options Window Help
                                                                                                                            File Edit Shell Debug Options Window Help
 class MhsTif(object):
                                                                                                                            Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
         def __init__(self, nama, nim, kota, uangsaku):
    self.nama = nama
    self.nim = nim
                                                                                                                            (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
                                                                                                                                                         === RESTART: E:/algostruk/MODUL_4/latihan3.py ====
                self.uangSaku = uangsaku
c0 = MhsTif("Ra", 10, "Solo", 240000)
c1 = MhsTif("Budi",51, "Sragen", 230000)
c2 = MhsTif("Ahmad", 2, "Surakarta", 250000)
c3 = MhsTif("Chandra", 18, "Surakarta", 235000)
c4 = MhsTif("Eka", 4, "Boyolali", 240000)
c5 = MhsTif("Erandi", 31, "Salatiga", 250000)
c6 = MhsTif("Brandi", 31, "Salatiga", 250000)
c7 = MhsTif("Galuh", 5, "Wonogiri", 245000)
c8 = MhsTif("Galuh", 5, "Wonogiri", 245000)
c9 = MhsTif("Hasan", 64, "Karanganyar", 270000)
c10 = MhsTif("Khalid", 29, "Purwodadi", 265000)
 kumpulan = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
 def cariTerkecil(kumpulan):
        n = len (kumpulan)
terkecil = kumpulan[0]
        for i in range(1,n):
                if kumpulan[i] < terkecil:
    terkecil = kumpulan[i]</pre>
```

Binary Search

```
latihan4.py - E:/algostruk/MODUL_4/latihan4.py (3.7.4)
                                                                                                         Python 3.7.4 Shell
 File Edit Format Run Options Window Help
                                                                                                         File Edit Shell Debug Options Window Help
 class MhsTif(object):
                                                                                                         Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
       ss mail(object):
def _init_ (self, nama, nim, kota, uangsaku):
    self.nama = nama
    self.nim = nim
    self.kota = kota
                                                                                                         (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
                                                                                                                          ====== RESTART: E:/algostruk/MODUL_4/latihan4.py =========
               self.uangSaku = uangsaku
                                                                                                         >>>
C0 = MhsTif("Ika", 10, "Solo", 240000)
c1 = MhsTif("Budi",51, "Sragen", 230000)
c2 = MhsTif("Ahmad", 2, "Surakarta", 250000)
c3 = MhsTif("Chandra", 18, "Surakarta", 235000)
c4 = MhsTif("Eka", 4, "Boyolali", 240000)
c5 = MhsTif("Fandi", 31, "Salatiga", 250000)
c6 = MhsTif("Peni", 13, "Klaten", 245000)
c7 = MhsTif("Galuh", 5, "Wonogiri", 245000)
c8 = MhsTif("Janto", 23, "Klaten", 245000)
c9 = MhsTif("Hasan", 64, "Karanganyar", 270000)
c10 = MhsTif("Khalid", 29, "Purwodadi", 265000)
 Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
 kumpulan = c0
 target = 'Solo'
 def binSe(kumpulan, target):
    low = 0
       high = len(kumpulan) -1
       while low <= high :
             mid = (high+low) //2
              if kumpulan[mid] == target:
              elif target < kumpulan[mid]:</pre>
                     high = mid - 1
              else:
                     low = mid + 1
       return False
```