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Kelas : E

Tugas

Modul 3

Nomer 1A, 1B, 1C

```
| Modelly Dimension Worken Wor
```

Nomer 1D

```
Python 2.7.10 Shell
                                                                                                                            Modul_3.py - D:/Person/Kuliah/Algostruk/Modul_3.py (2.7.10)
 Elle Edit Format Bun Options Wind
##
###No 1B.
                                                                                                                            ###No IB.
##def Ordo(matriks):
## return("Ordo matriks = "+str(len(matriks))+"x"+str(len
####No IC.
##def Jumlah(matriks1, matriks2):
## fordo(matriks1) == Ordo(matriks2):
## for x in range(0, len(matriks1)):
## for y in range(0, len(matriks1[0])):
## print(matriks1[x][y]+matriks2[x][y],''),
## print()
## else:
## error ordon matriks tidak sesuai")
                                                                                                                                      return("Ordo matriks = "+str(len(matriks))+"x"+str(len(matriks[0
 bisa dikalikan
[[25, 28], [57, 64], [89, 100]]
bisa dikalikan
[[61, 58], [77, 74]]
                                                                                                                             #No 1D.
                                                                                                                               def kali(n,m):
                                                                                                                                   aa = 0
x,y = 0,0
for i in range(len(n)):
    x+=1
                                                                                                                                   x+=1
y = len(n[i])
v,w = 0,0
for i in range(len(m)):
v+=1
                                                                                                                                          w = len(m[i])
                                                                                                                                  print(vwxy)
else:
                                                                                                                                          print("tidak memenuhi syarat")
                                                                                                                             kali(a,b)
                                                                                                                             kali(b,c)
                                                                                                                                                                                                                                           Ln: 64 Col: 0
```

```
Modul_3.py - D:/Person/Kuliah/Algostruk/Modul_3.py (2.7.10)
Python 2.7.10 Shell
 File Edit Shell Debug Options Window Help
Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.1500 32 bit (In tel)] on win32
Type "copyright", "credits" or "license()" for more information.
                                                                                                                                                                                  Edit Format Bun Options Window He
                                                                                                                                                                                       if (y==v):
                                                                                                                                                                                               y==v):
print("bisa dikalikan")
vwxy = [[0 for j in range(w)] for i in range(x)]
for i in range(len(n)):
    for j in range(len(m[0])):
        for k in range(len(m)):
        vwxy[i][j] += n[i][k]*m[k][j]
                                                                                 == RESTART =
 >>> bisa dikalikan
[[25, 28], [57, 64], [89, 100]]
bisa dikalikan
[[61, 58], [77, 74]]
>>> determinan(a)
'Tidak bisa mengitung determinan, bukan matrik bujursangkar'
                                                                                                                                                                                      print(vwxy)
else:
                                                                                                                                                                                               print("tidak memenuhi syarat")
   >>> determinan(b)
 -2
>>> |
                                                                                                                                                                               def determinan(A, total=0):
                                                                                                                                                                                      x = len(A[0])
z = 0
for i in range(len(A)):
    if(len(A[i])==x):
                                                                                                                                                                                      if (len(A[i]) ==x):
    z+=1

if (z==len(A)):
    if (x==len(A)):
    indices = list(range(len(A)))
    if len(A) ==2 and len(A[0]) ==2:
        val = A[0][0]*A[1][1]-A[1][0]*A[0][1]
        return val
    for fc in indices:
        As = a
        As = As[1:]
        height = len(As)
                                                                                                                                                                                                                 As = As[1:]
height = len(As)
for i in range(height):
    As[i] = As[i][0:fc]+As[i][fc+1:]
sign = (-1)**(fc*2)
sub_det = determHitung(As)
total += sign * A[0][fc]*sub_det
                                                                                                                                                                                                         return"Tidak bisa mengitung determinan, bukan matrik bujur
                                                                                                                                                                                       return"Tidak bisa menghitung determinan, bukan matriks bujursa return total
                                                                                                                                                                                      else:
```

Nomer 2A, 2B

```
| A Mode | Proposition | Propo
```

Nomer 3

```
| Modelary Different Number Nu
```

```
Python 2.7.10 Shell
                                                                                                                                                                  Modul_3.py - D:/Person/Kuliah/Algostruk/Modul_3.py (2.7.10)
                                                                                                                                                                                                                                                                                                   _ U X
  Eile Edit Format Run Options Window Help

if self.head == None:
                                                                                                                                                                                   return
temp = self.head
if posisi == 0:
    self.head = temp.next
                                                                                                                                                                                            temp = None
                                                                                                                                                                                   return
for i in range(posisi -1 ):
temp = temp.next
if temp is None:
   (12, 'Apakah ada dalam data?')
  True (29, 'Apakah ada dalam data?') False >>>
                                                                                                                                                                                  break
if temp is None:
                                                                                                                                                                                   if temp.next is None:
                                                                                                                                                                         if temp.next is None.

return

next = temp.next.next

temp.next = None

temp.next = next

def cari(self, x):

current = self.head

while current! = None:

if current.data == x:

    print(x, "Apakah ada dalam data?")

return True

current = current.next

print(x, "Apakah ada dalam data?")
                                                                                                                                                                                   print(x, "Apakah ada dalam data?")
return False
                                                                                                                                                                 a = LinkedList()
a.tambahDepan(31)
a.tambahDepan(23)
a.tambahDepan(23)
a.tambahDepan(24)
a.tambahDepan(26)
a.tambahDepan(27)
a.tambahDepan(19)
a.tambahAkhir(9)
a.hapus(0)
                                                                                                                                                                  a.hapus(0)
a.tambah(3,5)
                                                                                                                                                                   print (a.cari(12))
print (a.cari(29))
```

Nomer 4.

```
Python 2.7.10 Shell
                                                                                                                                                                                                           *Modul_3.py - D:/Person/Kuliah/Algostruk/Modul_3.py (2.7.10)*
                                                                                                                                                                                                            Eile Edit Format Bun Options Window Help
   Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.1500 32 bit (In
  Type "copyright", "credits" or "license()" for more information.
                                                                                                                                                                                                            #Nomor 4
                                                                                                                                                                                                              class Node:
                                                                                                                                                                                                            def init (self, data):

self.data = data
self.prev = None
class DoublyLinkedList:
def init (self):
self.head = None
def awal(self, new data):
   >>> b = DoublyLinkedList()
  >>> b = DoublyLinkedList()
>>> b.awal(8)
('menambah pada awal', 8)
>>> b.awal(1)
('menambah pada awal', 1)
>>> b.akhir(7)
('menambah pada akhir', 7)
>>> b.akhir(3)
('menambah pada akhir', 3)
                                                                                                                                                                                                                    def awal(self, new data):
    print("menambah pada awal", new_data)
    new_node = Node(new data)
    new_node.next = self.head
    if self.head is not None:
        self.head.prev = new_node
    self.head = new_node
    def akhir(self, new_data):
        print("menambah pada akhir", new data)
   KeyboardInterrupt
>>> b.printList(b.head)
                                                                                                                                                                                                                                  print("menambah pada akhi
new_node = Node(new_data)
                                                                                                                                                                                                                                                                                             akhir", new_data)
   Dari Depan :
                                                                                                                                                                                                                                 new_node.next = None
if self.head is None:
    new_node.prev = None
    self.head = new_node
                                                                                                                                                                                                                                return
last = self.head
while(last.next is not None):
last = last.next
last.next = new_node
new_node.prev = last
   Dari Belakang :
                                                                                                                                                                                                                     def printList(self, node):
    print("\nDari Depan :")
    while(node is not None):
        print(" % d" %(node.data))
                                                                                                                                                                                                                                print(" % d" % (node.data))
last = node
node = node.next
print("\nDari Belakang :")
while(last is not None):
    print(" % d" % (last.data))
last = last.prev
```