Ivanovitcz A.A.R L200170153 Kelas D Modul 3

1. Array 2 Dimensi

Matriks yang akan ditest

```
a = [[1,2],[3,4]]
b = [[5,6],[7,8]]
c = [[12,3,"x","y"],[12,33,4]]
d = [[3,4],[2,4],[1,5]]
e = [[5,6,7],[7,8,9]]
f = [[1,2,3],[4,5,6],[7,8,9]]
```

a. Cek apakah matriks tersebut konsisten dan Cek type data

```
t References Mailings Review View Format

Python 3.6.3 Shell Debug Options Window Help

Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 17:26:49) [MSC v.1900 32 bit (Intel)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

matriks konsisten
matriks konsisten
matriks konsisten
matrik tidak konsisten
matrik tidak konsisten
semua isi matriks adalah angka
semua isi matriks adalah angka
tidak semua isi matriks adalah angka
tidak semua isi matriks adalah angka
```

b. Mengambil ukuran matriks

```
def ordo(n):
    x,y = 0,0
    for i in range(len(n)):
        x+1
    y = len(n[i])
    print("mempunyai ordo "+str(x)+"x"+str(y))

ordo(a)
    ordo(b)
    ordo(d)
    ordo(e)

mempunyai ordo 2x2
mempunyai ordo 2x2
mempunyai ordo 3x2
mempunyai ordo 3x2
mempunyai ordo 2x3
```

c. Menjumlahkan 2 matriks

```
ukuran sama
[[6, 8], [10, 12]]
ukuran beda
```

d. Mengalikan 2 matriks

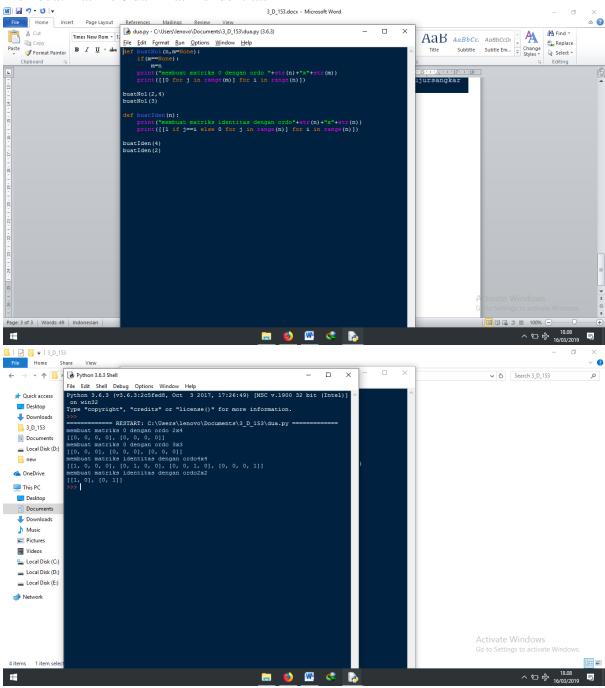
```
bisa dikalikan
[[14], [14]]
bisa dikalikan
[[19, 22], [43, 50]]
bisa dikalikan
[[19, 22, 25], [43, 50, 57]]
tidak memenuhi syarat
```

e. Menghitung Determinan

```
| Button | Coloration | Colorat
```

2. List Comprehension

Membuat matriks 0 dan Matriks Identitas



3. Linked List

Mencari data tertentu

Menambah simpul di awal dan akhir

Menyisipkan simpul di posisi tertentu

Menghapus simpul di posisi tertentu

```
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lass Node:

def _init_ (self, data):
    self.data = data
    self.next = None
lass LinkedList:

def _init_ (self):
    self.head = None
lass LinkedList:

def _init_ (self):
    new_node = Node(new_data):
    new_node = Node(new_data):
    new_node.next = self.head
    self.head = new_node
def pushAk(self, data):
    if (self.head = None):
        self.head = None):
        self.head = None):
        self.head = None
else:
    current = self.head
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                             clear
current = self.head
while (current.next != None):
    current = current.next
current.next = Node(data)
return self.head
insert(self.data,pos):
node = Node(data)
if not self.head = self.head;
self.head = node
elif.pos==0;
                               self.head = hode
elif pos==0:
    node.next = self.head
    self.head = node
                             else:
    prev = None
    current = self.head
    current pos = 0
    while (current pos < pos) and current.next:
        prev = current
        current = current.next
        current pos +=1
    prev.next = node
    node.next = current
return self.head
deleteNode(self, position):
if self.head == None:
    return</pre>
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temp = None
return

for i in range (position -1 ):
temp = temp.next
    if temp is None:
    breek
    if temp is None:
    return
    it temp.next is None:
    return
    return
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                              return

next = temp.next.next

temp.next = None

temp.next = next

search(seif, x):

current = seif.head

while current!= None:

if current.data == x:
                              return "False"
display(self):
current = self.head
while current is not None:
print(current.data, end = ' ')
current = current.next
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                                         True
                                         False
```

4. Doubly Linked List

Mengunjungi dan mencetak dari depan dan belakang Menambah simpul di awal dan akhir

