: Ni Made Widiasanti Nama

NIM : 19051397002

Prodi : D4 Manajemen Informatika 2019A

Mata Kuliah: Struktur Data

Materi 8

Double Linked List

Soal 1

Perhatikan script code double linked list non circular berikut ini dan tuliskan urutan langkah output node nya!

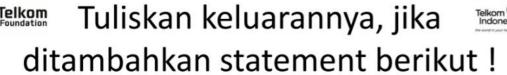
```
Telkom 🐣
                               STT Telematika
  #include<iostream>
                         n= new node;
   #include<stdio.h>
                           n->data = 2;
   #include<comio.h>
                          n->prev = tail;
   #include<stdlib.h>
                          tail->next = n;
                         tail=n;
   typedef struct node
                          n=new node;
                         n->data = 3;
          int data;
                           n->prev = tail;
          node* prev;
                           tail->next= n;
          node* next;
                           tail=n;
      1:
                           tail->next=NULL;
  int main()
                           tail = head ;
      node *head;
      node *tail;
      node *n;
                           while ( tail! = NULL ) {
                               cout << "Data : " << tail->data << endl;
                               tail = tail->next;
      n= new node;
      n->data = 1;
      n->prev=NULL;
                           system("PAUSE");
      head = n;
                           return 0;
      tail = n;
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```

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Jawaban:

```
Data: 1
Data: 2
Data: 3
```

Soal no 2



```
n=new node;
n->data=50;
n->prev=NULL;
n->next = head;
head->prev = n;
head = n;
tail->next=NULL;
tail = head ;
while( tail!= NULL ) {
    cout << "Data : " << tail->data << endl;
    tail = tail->next;
}
system("PAUSE");
return 0;
```

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Jawaban:

Data: 50

Data: 1

Data: 2

Data: 3

Soal no 3



ditambahkan statement berikut!

```
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```

```
node *bantu, *bantu2;
n=new node;
n->data=9;
n->prev=NULL;
                            while ( tail! = NULL ) {
n->next=NULL;
                               cout << "Data : " << tail->data << endl;
bantu = head;
                                tail = tail->next;
while (bantu->data != 2)
bantu = bantu->next;}
                            system("PAUSE");
                            return 0;
bantu2 = bantu->next;
n->next = bantu2;
bantu2->prev = n;
bantu->next = n;
n->prev = bantu;
tail->next=NULL;
tail = head ;
```

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Jawaban:

Data: 50

Data: 1

Data: 2

Data: 9

Data: 3



Tuliskan keluarannya, jika



ditambahkan statement berikut ! while(bantu->data != 2)

```
while(bantu->data != 2)
{
bantu = bantu->next;}

bantu2 = bantu->next;
n->next = bantu2;
bantu2->prev = n;
bantu->next = n;
n->prev = bantu;

hapus = head;
head = head->next;
head->prev = NULL;
delete hapus;

tail->next=NULL;

tail = head;
while(tail!= NULL){
    cout << "Data : " << tail->data << endl;
    tail = tail->next;
```

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Jawaban:

| Data : 1 | | | |
|----------|--|--|--|
| Data : 2 | | | |
| Data : 9 | | | |
| Data:3 | | | |

Soal no 5

Perhatikan script code double linked list circular sederhana berikut ini dan tuliskan urutan langkah output node nya!

```
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 Telkom
Foundation
  #include<iostream>
  #include<stdio.h>
                                                        n = new node;
                              n = new node;
                                                        n->next = n;
  #include<comio.h>
                              n->next = n;
                                                        n->prev = n;
  #include<stdlib.h>
                              n->prev = n;
                                                        n->data = 9;
                              n->data = 5;
                                                        tail->next = n;
                                                        n->prev = tail;
  //linked list circular
                              head = tail = n;
                                                        tail = n;
  typedef struct node{
                                                        tail->next = head;
           int data;
                              n = new node;
                                                        head->prev = tail;
           node* prev;
                              n->next = n;
           node* next;
                                                        bantu = head;
                              n->prev = n;
      };
                                                        do
                              n->data = 8;
                                                         cout<<bantu->data;
                                                         bantu = bantu->next;
                              tail->next = n;
  int main()
                                                        ) while (bantu!=head);
                              n->prev = tail;
  {
                              tail = n;
      node* head;
                                                        system ("PAUSE");
      node* tail;
                                                        return 0;
                             tail->next = head;
      node* n;
                              head->prev = tail;
      node* bantu;
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```

Jawaban:

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