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STRUKTUR DATA

LATIHAN Materi 8

DOUBLE LINKED LIST

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

```
STT Telematika
TELKOM
                                                                      Telkom 🕓
[#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;
node* next;
                            tail->next= n;
                           tail=n;
                           tail->next=NULL;
 int main()
                           tail = head ;
     node *head:
     node *tail;
     node *n;
                           while( tail!= NULL ) {
   cout << "Data : " << tail->data << endl;</pre>
                                tail = tail->next;
     n= new node;
     n->data = 1;
     n->prev=NULL;
                           system("PAUSE");
     head = n;
                           return 0;
     tail = n;
```

```
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;
}
```

Hasil output

Data: 50

Data:1

Data: 2

Data: 3

Tuliskan keluarnya, jika ditambahkan statement berikut!

```
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");
bantu2 = bantu->next;
                           return 0;
                      }
n->next = bantu2;
bantu2->prev = n;
bantu->next = n;
n->prev = bantu;
tail->next=NULL;
tail = head ;
```

Hasil output

Data: 50

Data:1

Data: 2

Data:9

Data: 3

Tuliskan keluarnya, jika ditambahkan statement berikut!

```
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;
}
```

Hasil output

Data:9

Data: 3

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

```
#include<iostream>
                                                  n = new node;
#include<stdio.h>
                          n = new node;
                                                  n->next = n;
#include(conio.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;
    };
                          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;
                          tail->next = head; }
                                                  return 0;
    node* n;
                          head->prev = tail;
    node* bantu;
```

Hasil output

5 8 9