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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!

```
Ti#include<iostream>
f#include<stdio.h>
finclude<conio.h>
finclude<stdlib.h>

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finclude<stdlib.h>
                                                                                                 Telkom 💟
                                     n->prev = tail;
                                     tail->next = n;
  typedef struct node
                                      tail=n;
                                      n=new node;
             int data;
                                    n->data = 3;
n->prev = tail;
             node* prev;
                                     tail->next= n;
             node* next;
                                      tail=n;
        }:
                                      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;
head = n;
tail = n; }
                                      system("PAUSE");
                                      return 0;
```

Hasil output

Data:1

Data: 2

2. Tuliskan keluarnya, jika ditambahkan statement berikut!

```
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

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;</pre>
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 ;
```

Hasil output

Data: 50

Data:1

Data: 2

Data:9

4. 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:1

Data: 2

Data:9

5. 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<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;
                       tail->next = head; }
                                                return 0;
    node* n;
                       head->prev = tail;
   node* bantu;
```

Hasil output

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