STRUKTUR DATA Tugas UTS



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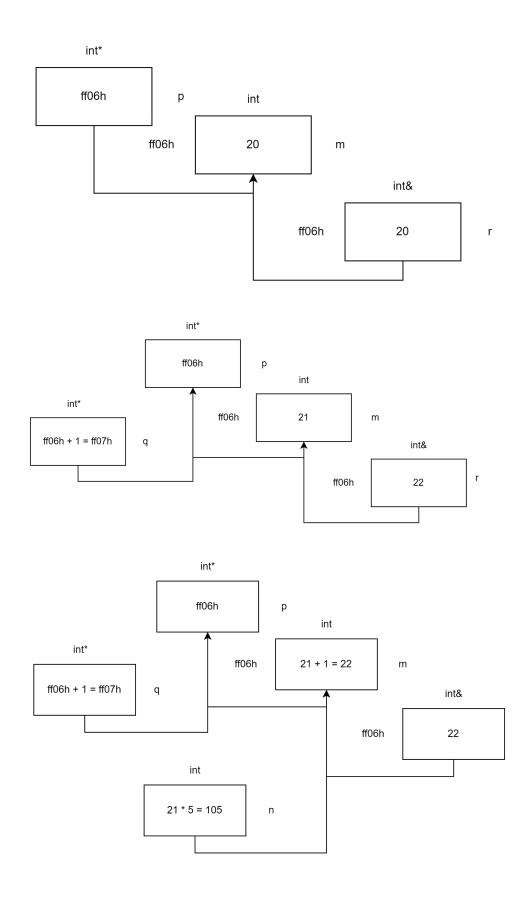
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Universitas Padjadjaran FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM Program Studi S-1 Teknik Informatika 2024

• Soal 1

A

```
cout << a << ", " << b << ", " << c << ", " <<
y << endl;</pre>
main()
    fungsi(c, a, b); // c = a, a = &b, dan b = &c;
    cout << a << ", " << b << ", " << c << ", " <<
v << endl;</pre>
```



Ouputnya adalah: 22, ff06h, 105 22, 22, ff07h

• Soal 2

Source Code

```
using namespace std;
struct arr
   int data[20];
typedef arr LarikInt;
int deleteData(LarikInt &A, int &n, int x);
void inputData(LarikInt &A, int n);
void cetakData(LarikInt A, int n);
int main()
   cout << "Masukkan Banyak Data : ";</pre>
   LarikInt array;
   inputData(array, n);
   cetakData(array, n);
   cout << "Input Data Yang Akan Dihapus : ";</pre>
    deleteData(array, n, x);
```

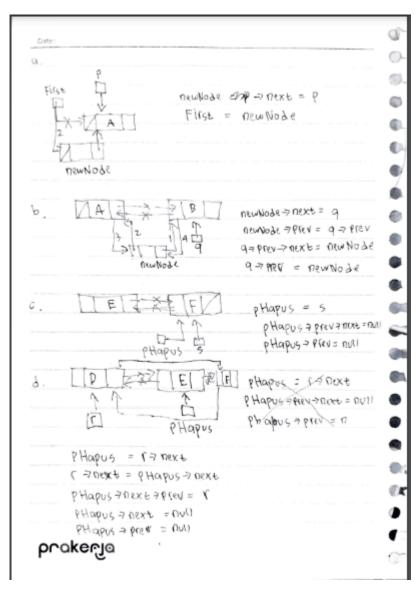
```
cetakData(array, n);
void inputData(LarikInt &A, int n)
        cout << "Input Data ke-" << i + 1 << " :</pre>
void cetakData(LarikInt A, int n)
        cout << A.data[i];</pre>
            cout << ", ";
    while (index < n && A.data[index] != x)</pre>
```

```
{
    A.data[i] = A.data[i + 1];
}
n--;
return 1;
}
```

o Hasil Run

```
PS C:\Users\diata\OneDrive\Documents\Bagas\Tugas\UNPAD\Semester 2\Struktur Data\Tugas_8 (UTS)> cd "c:\Users\diata\OneDrive\Documents\Bagas\Tugas\UNPAD\Semester 2\Struktur Data\Tugas_8 (UTS)\"; if ($?) { g++ soal_2.cpp -0 soal_2 }; if ($?) { .\soal_2 } Masukkan Banyak Data : 5
Input Data ke-1 : 1
Input Data ke-2 : 2
Input Data ke-3 : 3
Input Data ke-4 : 4
Input Data ke-5 : 5
1, 2, 3, 4, 5
Input Data Yang Akan Dihapus : 4
1, 2, 3, 5
```

• Soal 3



• Soal 4

o Source Code

```
using namespace std;
struct pegawai
   string NIP;
   int golongan;
struct node
   pegawai data;
typedef Pointer List;
void createHead(Pointer &head)
void createElement(List &newNode)
   cout << "NIP :
   cin >> newNode->data.NIP;
   cout << "Nama
   cin >> newNode->data.nama;
   cout << "Golongan :</pre>
   cin >> newNode->data.golongan;
void searching(Pointer head, Pointer &pCari,
Pointer &prev, string key)
```

```
pCari = head;
        if (pCari->data.NIP == key)
       pCari = pCari->next;
Pointer prev, List newNode)
   else if (head == pCari || pCari == nullptr) //
```

```
int gajiGolongan(int golongan)
   int gaji = 0;
      gaji = 3000000;
      gaji = 4000000;
      gaji = 5000000;
      gaji = 0;
   return gaji;
   Pointer pHelp = head;
   int gaji, totalGaji = 0, average;
   cout <<
====" << endl;
   cout << "NO\tNIP\tNama\tGolongan\tGaji" <<</pre>
endl;
   cout <<
====" << endl;
   while (pHelp != nullptr)
       gaji = gajiGolongan(pHelp->data.golongan);
```

```
totalGaji += gaji;
        cout << n << "\t" << pHelp->data.NIP <<</pre>
"\t" << pHelp->data.nama << "\t" <<
pHelp->data.golongan << "\t\t" << gaji << endl;
        pHelp = pHelp->next;
   cout <<
====" << endl;
   average = (totalGaji > 0) ? totalGaji / n : 0;
   cout << "Rata-rata Gaji : " << average << endl;</pre>
int main()
   Pointer head, pCari, prev;
   List newNode;
   string key;
   createHead(head);
        createElement(newNode);
        cin >> key;
        searching(head, pCari, prev, key);
        insertBefore(head, pCari, prev, newNode);
   traversal (head);
```

```
PS C:\Users\diata\OneDrive\Documents\Bagas\Tugas\UNPAD\Semester 2\Struktur
 Data\Tugas_8 (UTS)> cd "c:\Users\diata\OneDrive\Documents\Bagas\Tugas\UNP
AD\Semester 2\Struktur Data\Tugas_8 (UTS)\" ; if ($?) { g++ soal_4.cpp -o
soal_4 } ; if ($?) { .\soal_4 }
NIP : 001
Nama : Bagas
Golongan : 2
Masukkan Sebelum NIP : 000
NIP : 002
Nama : Diatama
Golongan : 3
Masukkan Sebelum NIP : 001
NIP : 003
Nama : Wardoyo
Golongan : 2
Masukkan Sebelum NIP : 002
NIP : 004
Nama : Wardo
Nama : Wardoyo
Golongan : 3
Masukkan Sebelum NIP : 003
_____
       NIP Nama Golongan
                                           Gaji
_____

        004
        Wardoyo 3
        5000000

        003
        Wardoyo 2
        4000000

        002
        Diatama 3
        5000000

        001
        Bagas 2
        4000000

2
3
4
```

Rata-rata Gaji : 4500000