

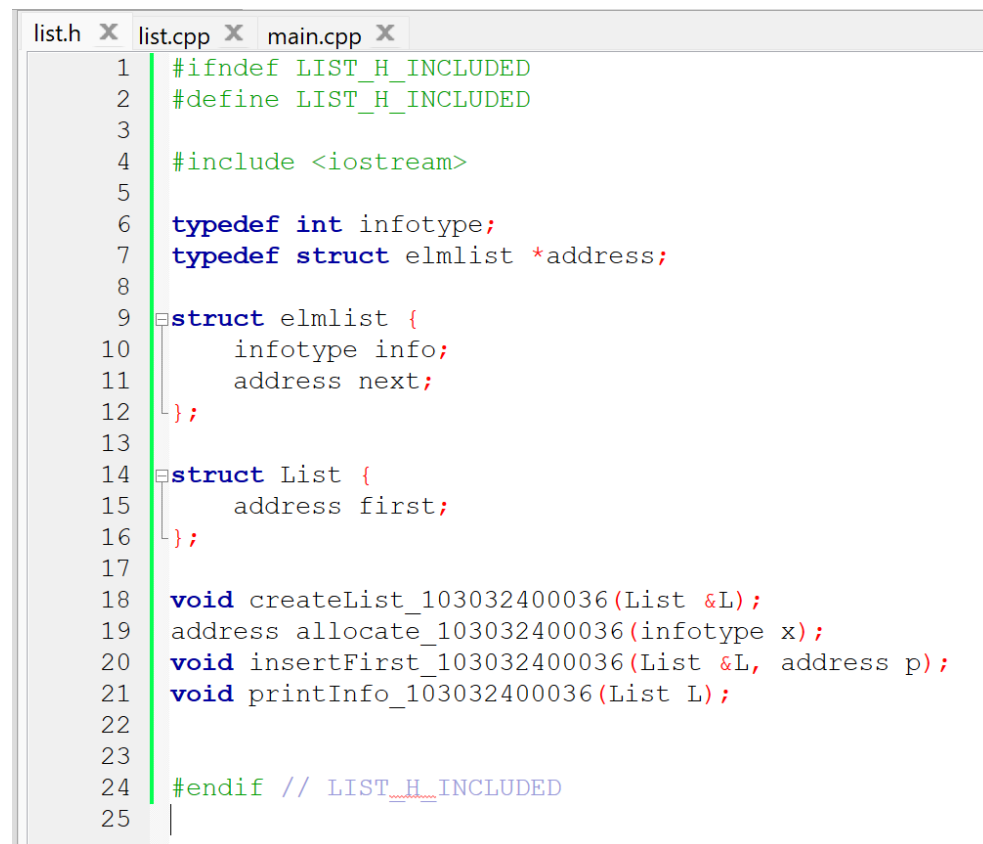
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Kelas IT-48-05

## Jawaban Tugas Pendahuluan Modul 4

### File list.h



```
list.h x list.cpp x main.cpp x
1  #ifndef LIST_H_INCLUDED
2  #define LIST_H_INCLUDED
3
4  #include <iostream>
5
6  typedef int infotype;
7  typedef struct elmlist *address;
8
9  struct elmlist {
10     infotype info;
11     address next;
12 };
13
14 struct List {
15     address first;
16 };
17
18 void createList_103032400036(List &L);
19 address allocate_103032400036(infotype x);
20 void insertFirst_103032400036(List &L, address p);
21 void printInfo_103032400036(List L);
22
23
24 #endif // LIST_H_INCLUDED
25
```

## File list.cpp

```
list.h X list.cpp X main.cpp X
1  #include <iostream>
2  #include "list.h"
3
4  using namespace std;
5
6  void createList_103032400036(List &L) {
7      L.first = nullptr;
8  }
9
10 void allocate_103032400036(infotype x) {
11     address p = new elmlist;
12     p->info = x;
13     p->next = nullptr;
14
15     return p;
16 }
17
18 void insertFirst_103032400036(List &L, address p) {
19     p->next = L.first;
20     L.first = p;
21 }
22
23 void printInfo_103032400036(List L) {
24     address p = L.first;
25
26     while(p) {
27         cout << p->info << ", ";
28         p = p->next;
29     }
30
31     cout << endl;
32 }
33
```

## File main.cpp

```
list.h x list.cpp x main.cpp x
1 | #include "list.h"
2
3 using namespace std;
4
5 int main() {
6     List L;
7     address p;
8     int x;
9
10    x = 0;
11    createList_103032400036(L);
12
13    cout << "Masukkan angka pertama: ";
14    cin >> x;
15    p = allocate_103032400036(x);
16    insertFirst_103032400036(L,p);
17    printInfo_103032400036(L);
18
19    cout << "Masukkan angka kedua: ";
20    cin >> x;
21    p = allocate_103032400036(x);
22    insertFirst_103032400036(L,p);
23    printInfo_103032400036(L);
24
25    cout << "Masukkan angka ketiga: ";
26    cin >> x;
27    p = allocate_103032400036(x);
28    insertFirst_103032400036(L,p);
29    printInfo_103032400036(L);
30
31    return 0;
32 }
33
```

## Output

```
"C:\Users\shere\OneDrive\TELKOM UNIVERSITY\SEMESTER 3\STRUKTUR DA
Masukkan angka pertama: 2005
2005,
Masukkan angka kedua: 11
11, 2005,
Masukkan angka ketiga: 22
22, 11, 2005,

Process returned 0 (0x0)   execution time : 7.867 s
Press any key to continue.

```