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list.h ×   list.cpp ×   main.cpp ×

```cpp
1   /*
2   Name : Mikogizka Satria Kartika
3   NIM : 1301194086
4   */
5   #ifndef LIST_H_INCLUDED
6   #define LIST_H_INCLUDED
7
8   #include <iostream>
9   #define Nil NULL
10  #define first(L) L.first
11  #define next(P) P->next
12  #define info(P) P->info
13  using namespace std;
14  typedef int infotype;
15  typedef struct elmlist *address;
16
17  struct elmlist {
18      infotype info;
19      address next;
20  };
21  struct List {
22      address first;
23  };
24
25  void createList(List &L);
26  address allocate(infotype x);
27  void insertFirst(List &L, address P);
28  void printInfo (List L);
29  void deleteFirst(List &L, address &P);
30  #endif // LIST_H_INCLUDED
31
```

Logs & others

D:\tp02\list.h   C/C++   Windows (CR+LF)   default   Line 10, Col 21, Pos 170   Insert   Read/Write   default

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<global>

list.h ×   list.cpp ×   main.cpp ×

```cpp
1   /*
2   Name : Mikogizka Satria Kartika
3   NIM : 1301194086
4   */
5   #include "list.h"
6   using namespace std;
7
8   void createList(List &L){
9       first(L) = NULL;
10  }
11
12  address allocate(infotype x) {
13      address p = new elmlist;
14      info(p) = x;
15      next(p) = NULL;
16      return p;
17  }
18
19  void insertFirst(List &L, address P){
20      next(P) = first(L);
21      first(L) = P;
22  }
23
24  void printInfo(List L){
25      address p = first(L);
26      while (p != NULL) {
27          cout <<info(p)<< ", ";
28          p = next(p);
29      }
30      cout<<endl;
31  }
32
33  void deleteFirst(List &L, address &P){
34      if (first(L) != NULL) {
35          P = first(L);
36          first(L) = next(P);
```

Logs & others

D:\tp02\list.cpp   C/C++   Windows (CR+LF)   default   Line 6, Col 1, Pos 78   Insert   Read/Write   default

```cpp
33  void deleteFirst(List &L, address &P){
34      if (first(L) != NULL) {
35          P = first(L);
36          first(L) = next(P);
37
38          next(P) = NULL;
39      }
40  }
41
```

Logs & others

D:\tp02\list.cpp   C/C++   Windows (CR+LF)   default   Line 6, Col 1, Pos 78   Insert   Read/Write   default

list.h   list.cpp   main.cpp

```cpp
/*
Name : Mikogizka Satria Kartika
NIM : 1301194086
*/
#include "list.h"
using namespace std;

int main()
{
    infotype x, n, isi, a;
    address P;
    List(L);
    n = 0;
    a = 1;
    cout<<"Masukkan Banyak slot list: ";
    cin>>isi;
    createList(L);
    while(n<isi){
        cout<<"Data pads slot ke-"<<a++<<": ";
        cin>>x;
        P = allocate(x);
        insertFirst(L, P);
        n++;
    }
    deleteFirst(L, P);
    printInfo (L);
    return 0;
}
```

```
D:\tp02\bin\Debug\tp02.exe

Masukkan Banyak slot list: 5
Data pads slot ke-1: 3
Data pads slot ke-2: 2
Data pads slot ke-3: 4
Data pads slot ke-4: 5
Data pads slot ke-5: 1
5, 4, 2, 3,

Process returned 0 (0x0)   execution time : 30.382 s
Press any key to continue.
```