main.cpp [TP2] - Code::Blocks 17.12

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list.cpp

```cpp
#include "list.h"
using namespace std;

void createList(List &L)
{
    first(L) = NULL;
}

address allocate(infotype x)
{
    address P = new elmlist;
    info(P) = x;
    next(P) = NULL;
    return P;
}

void insertFirst(List &L, address P)
{
    next(P) = first(L);
    first(L) = P;
}

void printInfo(List L)
{
    address P = first(L);
    while(P != NULL)
    {
        cout<<info(P)<<", ";
        P = next(P);
    }
    cout<<endl;
}

void deleteFirst(List &L, address &P){
    if(first(L) != NULL){
        P = first(L);
        first(L) = next(P);
        next(P) = NULL;
    }
```

main.cpp

```cpp
#include "list.h"
using namespace st

int main()
{
    infotype x, i,
    address P;
    List (L);
    i = 0;
    a = 1;
    b = 1;
    c = 1;
    cout<<"Masukan Banyak data: ";
    cin>>data;
    createList(L);
    while(i<data){
        cout<<"Data ke-"<<a++<<": ";
        cin>>x;
        P = allocate(x);
        insertFirst(L, P);
        i++;
    }
    if(b == 1){
        cout<<"Sebelum memakai delete first:\n";
        printInfo(L);
    }
    if(c == 1){
        deleteFirst(L, P);
        cout<<"Sesudah memakai delete first:\n";
        printInfo (L);
    }
    return 0;
}
```

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```
Masukan Banyak data: 3
Data ke-1: 3
Data ke-2: 2
Data ke-3: 1
Sebelum memakai delete first:
1, 2, 3,
Sesudah memakai delete first:
2, 3,

Process returned 0 (0x0)   execution time : 9.261 s

Press any key to continue.
```

```cpp
/*
Nama: Fahmi Razan Ramdani
NIM: 1301194054
*/
#ifndef LIST_H_INCLUDED
#define LIST_H_INCLUDED

#include <iostream>
#define Nil NULL
#define first(L) L.first
#define next(P) P->next
#define info(P) P->info
using namespace std;

typedef int infotype;
typedef struct elmlist *address;

struct elmlist{
    infotype info;
    address next;
};
struct List{
    address first;
};

void createList(List &L);
address allocate(infotype x);
void insertFirst(List &L, address P);
void printInfo (List L);
void deleteFirst(List &L, address &P);
#endif // LIST_H_INCLUDED
```

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