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## Code:

```
Management
                      main.cpp × list.h × list.cpp ×
Projects Files FSy
                           1 #include "../list.h"
3
                                using namespace std;
main
                           4
   Sources
                           5
                              □int main(){
     main
                           6
                                    List L;
        main.cpp
                           7
                                    createList(L);
                           8
       list.cpp
                                    address P1 = allocate(0);
                           9
   Headers
                                    address P2 = allocate(2);
                          10
      list.h
                          11
                                    address P3 = allocate(0);
                          12
                          13
                                    insertFirst(L,P3);
                          14
                                    insertFirst(L, P2);
                          15
                                    insertFirst(L,P1);
                          16
                          17
                                    printInfo(L);
                          18
                          19
                                    return 0;
                          20
                          21
Management
                        main.cpp × list.h × list.cpp ×
                                 #ifndef LIST_H_INCLUDED #define LIST_H_INCLUDED
Projects Files FSy
in main
                                 using namespace std;
   Sources
                                 typedef int infotype;
      main
                                 typedef struct elmList *address;
                             8
         main.cpp
                             9
                                struct elmList {
        list.cpp
                            10
                                     infotype info;
                            11
                                     address next;
   Headers
                            12
       list.h
                            13
                            14
                                ⊟struct List {
                            15
                                     address first;
                            16
                            17
                            18
                                 void createList(List &L);
                            19
                            20
                                 address allocate(infotype x);
                            21
                            22
                            23
                                 void insertFirst(List &L, address p);
                            24
                            25
                                 void printInfo(List L);
                            26
                            27
                            28
                                 #endif // LIST_H_INCLUDED
```

```
Management
                               main.cpp × list.h × list.cpp ×
Projects Files FS
                                      #include <iostream>
#include "list.h"
using namespace std;
 main
                                      □void createList(List &L) {
    Sources
                                          L.first = nullptr;
       imain
          main.cpp
                                  10 paddress allocate(infotype x) {
                                         address p = new elmList;
                                  11
        list.cpp
                                  12
                                         p->info = x;
p->next = nullptr;
                                  13
    Headers
                                  14
        list.h
                                  15
                                  16
                                         return p;
                                      pvoid insertFirst(List &L, address p) {
                                  20
                                        p->next = L.first;
                                  21
                                          L.first = p;
                                  22
                                  23
                                  24
                                     pvoid printInfo(List L) {
                                  25
                                          address p = L.first;
                                  26
                                  27
                                          while (p) {
                                           cout << p->info << ", ";
                                  28
                                  29
                                             p = p->next;
                                  30
                                          cout << endl;
                                  31
                                  32
```

## Output:

```
"D:\kuliah\semester 3\struktu \time \time
```