

JURNAL MOD 3

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AJF

Catalog.h

```
main.cpp X catalog.cpp X catalog.h X
1  #ifndef CATALOG_H_INCLUDED
2  #define CATALOG_H_INCLUDED
3
4  #include <iostream>
5  using namespace std;
6
7  const int nMax = 50;
8
9  struct catalog{
10     int data[nMax];
11     int max;
12     int num;
13 };
14
15 void add_data_1301202398(catalog &C, int x);
16 void view_data_1301202398(catalog C);
17 int search_data_1301202398(catalog C, int x);
18 void reversed_view_1301202398(catalog C);
19 void delete_data_1301202398(catalog &C);
20
21 #endif // CATALOG_H_INCLUDED
22
23
```

Catalog.cpp

```
main.cpp X catalog.cpp X catalog.h X
1  #include "catalog.h"
2  #include <iostream>
3  using namespace std;
4
5  void add_data_1301202398(catalog &C, int x){
6      // Muhamad Fachri Haikal
7      // 1301202398
8
9      C.num += 1;
10     C.data[C.num] = x;
11 }
12
13 void view_data_1301202398(catalog C){
14     // Muhamad Fachri Haikal
15     // 1301202398
16
17     int i;
18
19     for (i=0; i<=C.num; i++){
20         cout << C.data[i] << " ";
21     }
22     cout << endl;
23 }
24
25 int search_data_1301202398(catalog C, int x){
26     // Muhamad Fachri Haikal
27     // 1301202398
28
29     int i;
30
31     for (i=0; i<C.num; i++){
32         if (C.data[i] == x){
33             return i;
34             break;
35         }
36     }
37     return -1;
38 }
39
40 void reversed_view_1301202398(catalog C){
41     // Muhamad Fachri Haikal
42     // 1301202398
43
44     int i;
45
46     i = C.num;
47
48     while (i >= 0){
49         cout << C.data[i] << " ";
50         i--;
51     }
52     cout << endl;
53 }
54
55 //void delete_data(catalog &C){
56
57 void delete_data_1301202398(catalog &C){
58     // Muhamad Fachri Haikal
59     //1301202398 //
60
61     C.num -= 1;
62 }
63
```

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main.cpp

```
main.cpp X catalog.cpp X catalog.h X
1  #include "catalog.h"
2
3  #include <iostream>
4  using namespace std;
5
6  int main(){
7      //inisiasi Variabel
8      catalog storage;
9      storage.max = 8;
10     storage.num = -1;
11     //Menambahkan data & Output
12     add_data_1301202398(storage, 6);
13     view_data_1301202398(storage);
14     add_data_1301202398(storage, 4);
15     view_data_1301202398(storage);
16     add_data_1301202398(storage, 8);
17     view_data_1301202398(storage);
18     add_data_1301202398(storage, 2);
19     view_data_1301202398(storage);
20     cout<<endl;
21     //Mencari index
22     int i;
23     i = search_data_1301202398(storage, 8);
24     cout<<i<<endl;
25     i = search_data_1301202398(storage, 5);
26     cout<<i<<endl;
27     //Reversed view
28     cout << endl;
29     reversed_view_1301202398(storage);
30     add_data_1301202398(storage, 5);
31     reversed_view_1301202398(storage);
32
33     cout << endl;
34
35     //Delete data index terakhir
36     view_data_1301202398(storage);
37     delete_data_1301202398(storage);
38     view_data_1301202398(storage);
39
40     return 0;
41 }
42
```

Hasil output

```
"C:\Users\haikal\Documents\Kuliah\Semester 3\Strukdat\Mod3\Mod3\bin\Release\Mod3.exe"
6
6 4
6 4 8
6 4 8 2

2
-1

2 8 4 6
5 2 8 4 6

6 4 8 2 5
6 4 8 2

Process returned 0 (0x0)   execution time : 0.055 s
Press any key to continue.
```