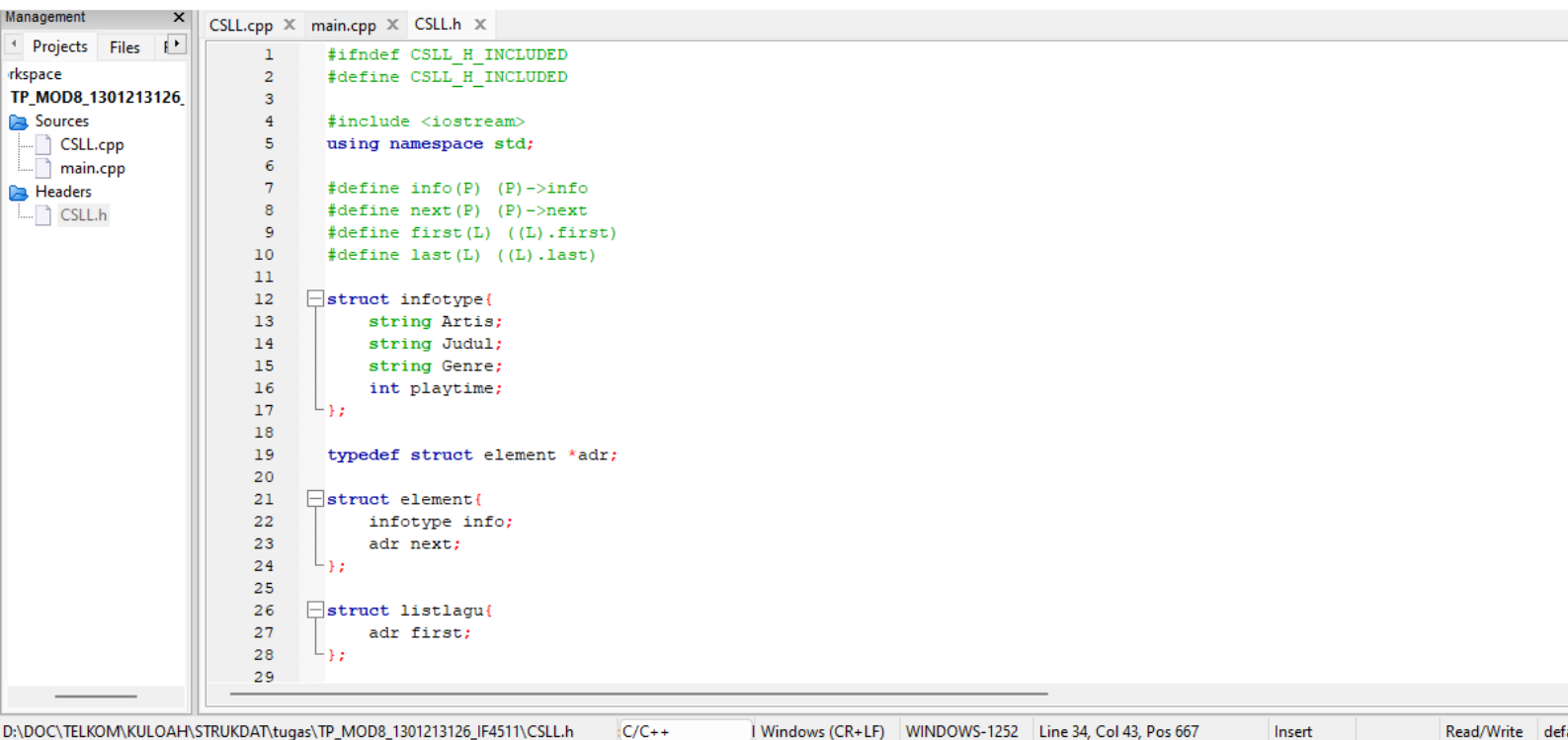


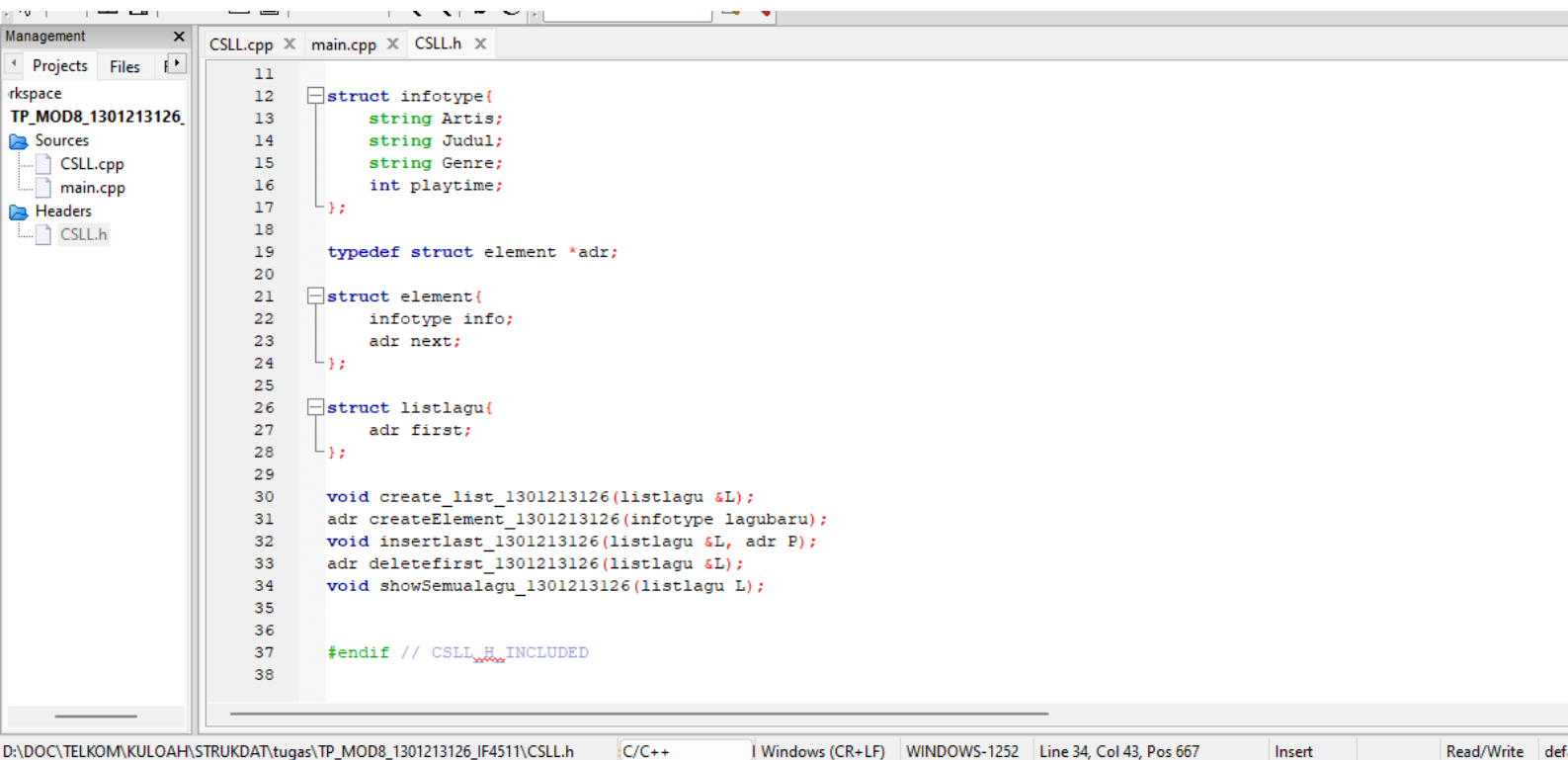
Fadhil Muhamad Pratama

1301213126

IF4511



```
1  #ifndef CSLL_H_INCLUDED
2  #define CSLL_H_INCLUDED
3
4  #include <iostream>
5  using namespace std;
6
7  #define info(P) (P)->info
8  #define next(P) (P)->next
9  #define first(L) ((L).first)
10 #define last(L) ((L).last)
11
12 struct infotype{
13     string Artis;
14     string Judul;
15     string Genre;
16     int playtime;
17 };
18
19 typedef struct element *adr;
20
21 struct element{
22     infotype info;
23     adr next;
24 };
25
26 struct listlagu{
27     adr first;
28 };
29
```



```
11
12 struct infotype{
13     string Artis;
14     string Judul;
15     string Genre;
16     int playtime;
17 };
18
19 typedef struct element *adr;
20
21 struct element{
22     infotype info;
23     adr next;
24 };
25
26 struct listlagu{
27     adr first;
28 };
29
30 void create_list_1301213126(listlagu &L);
31 adr createElement_1301213126(infotype lagubaru);
32 void insertlast_1301213126(listlagu &L, adr P);
33 adr deletefirst_1301213126(listlagu &L);
34 void showSemualagu_1301213126(listlagu L);
35
36
37 #endif // CSLL_H_INCLUDED
38
```

Management X CSLL.cpp X main.cpp X CSLL.h X

rkspase  
TP\_MOD8\_1301213126.  
Sources  
CSLL.cpp  
main.cpp  
Headers  
CSLL.h

```
1 #include "CSLL.h"
2
3 void create_list_1301213126(listlagu &L){
4     first(L) = NULL;
5 }
6
7 adr createElement_1301213126(infotype lagubaru){
8     adr P = new element;
9     info(P) = lagubaru;
10    next(P) = NULL;
11    return P;
12 }
13
14 void insertlast_1301213126(listlagu &L, adr P){
15     if(first(L) == NULL){
16         first(L) = P;
17         next(P) = first(L);
18     }
19     else{
20         adr q = next(first(L));
21         while(next(q) != first(L)){
22             q = next(q);
23         }
24         next(q) = P;
25         next(P) = first(L);
26     }
27 }
28
29 adr deletefirst_1301213126(listlagu &L){
```

D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP\_MOD8\_1301213126\_IF4511\CSLL.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 54, Col 81, Pos 1194 Insert Read/Write default

management X CSLL.cpp X main.cpp X CSLL.h X

rkspase  
TP\_MOD8\_1301213126.  
Sources  
CSLL.cpp  
main.cpp  
Headers  
CSLL.h

```
28
29 adr deletefirst_1301213126(listlagu &L){
30     adr P;
31     if(next(first(L)) == first(L)){
32         P = first(L);
33         next(P) = NULL;
34         first(L) = NULL;
35         return P;
36     }else{
37         adr q = next(first(L));
38         while(next(q) != first(L)){
39             q = next(q);
40         }
41         P = first(L);
42         first(L) = next(P);
43         next(q) = first(L);
44         return P;
45     }
46 }
47
48 void showSemualagu_1301213126(listlagu L){
49     adr P = first(L);
50     if(P == NULL){
51         cout<<" Data Kosong "<<endl;
52     } else{
53         do{
54             cout<<info(P).Judul<<" - "<<info(P).Artis<<"("<<info(P).Genre<<" : "<<info(P).playtime<<endl;
55             P = next(P);
56         }while(P != first(L));
```

D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP\_MOD8\_1301213126\_IF4511\CSLL.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 54, Col 81, Pos 1194 Insert Read/Write default

Management X

Projects Files

rkspase

TP\_MOD8\_1301213126

Sources

CSLL.cpp

main.cpp

Headers

CSLL.h

```
33     next(P) = NULL;
34     first(L) = NULL;
35     return P;
36 }else{
37     adr q = next(first(L));
38     while(next(q) != first(L)){
39         q = next(q);
40     }
41     P = first(L);
42     first(L) = next(P);
43     next(q) = first(L);
44     return P;
45 }
46 }
47
48 void showSemualagu_1301213126(listlagu L){
49     adr P = first(L);
50     if(P == NULL){
51         cout<<" Data Kosong "<<endl;
52     } else{
53         do{
54             cout<<info(P).Judul<<" - "<<info(P).Artis<<"("<<info(P).Genre<<" : "<<info(P).playtime<<endl;
55             P = next(P);
56         }while(P != first(L));
57         cout<<"---selesai---"<<endl;
58     }
59 }
60 }
```

D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP\_MOD8\_1301213126\_JF4511\CSLL.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 54, Col 81, Pos 1194 Insert Read/Write

Management X

Projects Files

rkspase

TP\_MOD8\_1301213126

Sources

CSLL.cpp

main.cpp

Headers

CSLL.h

```
1 #include "CSLL.h"
2
3 int main()
4 {
5     listlagu L;
6     create_list_1301213126(L);
7     infotype q;
8     adr P;
9     q.Artis = "Neck Deep";
10    q.Judul = "wish you were here";
11    q.Genre = "Pop punk";
12    q.playtime = 408;
13    P = createElement_1301213126(q);
14    insertlast_1301213126(L,P);
15
16    q.Artis = "post malone";
17    q.Judul = "wow.";
18    q.Genre = "hip hop";
19    q.playtime = 228;
20    P = createElement_1301213126(q);
21    insertlast_1301213126(L,P);
22
23    q.Artis = "Bring Me The Horizon";
24    q.Judul = "Drown";
25    q.Genre = "rock";
26    q.playtime = 342;
27    P = createElement_1301213126(q);
28    insertlast_1301213126(L,P);
29 }
```

D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP\_MOD8\_1301213126\_JF4511\main.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 124, Col 19, Pos 3084 Insert Read/Write default

Management x

Projects Files

rkspase

TP\_MOD8\_1301213126.

Sources

CSLL.cpp

main.cpp

Headers

CSLL.h

CSLL.cpp x main.cpp x CSLL.h x

```
25 q.Genre = "rock";
26 q.playtime = 342;
27 P = createElement_1301213126(q);
28 insertlast_1301213126(L,P);
29
30 q.Artis = "Bring Me The Horizon";
31 q.Judul = "Throne";
32 q.Genre = "rock";
33 q.playtime = 311;
34 P = createElement_1301213126(q);
35 insertlast_1301213126(L,P);
36
37 q.Artis = "Bring Me The Horizon";
38 q.Judul = "Happy Song";
39 q.Genre = "rock";
40 q.playtime = 359;
41 P = createElement_1301213126(q);
42 insertlast_1301213126(L,P);
43
44 q.Artis = "The Weeknd";
45 q.Judul = "The Hills";
46 q.Genre = "Pop";
47 q.playtime = 402;
48 P = createElement_1301213126(q);
49 insertlast_1301213126(L,P);
50
51 q.Artis = "The Weeknd";
52 q.Judul = "Starboy";
53 q.Genre = "Pop";
```

D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP\_MOD8\_1301213126\_IF4511\main.cpp C/C++ I Windows (CR+LF) WINDOWS-1252 Line 124, Col 19, Pos 3084 Insert Read/Write

Management x

Projects Files

rkspase

TP\_MOD8\_1301213126.

Sources

CSLL.cpp

main.cpp

Headers

CSLL.h

CSLL.cpp x main.cpp x CSLL.h x

```
52 q.Judul = "Starboy";
53 q.Genre = "Pop";
54 q.playtime = 350;
55 P = createElement_1301213126(q);
56 insertlast_1301213126(L,P);
57
58 q.Artis = "Khalid";
59 q.Judul = "American Teen";
60 q.Genre = "Pop";
61 q.playtime = 411;
62 P = createElement_1301213126(q);
63 insertlast_1301213126(L,P);
64
65 q.Artis = "Oasis";
66 q.Judul = "Don't Look Back In Anger";
67 q.Genre = "Pop";
68 q.playtime = 450;
69 P = createElement_1301213126(q);
70 insertlast_1301213126(L,P);
71
72 q.Artis = "Daniel Caesar";
73 q.Judul = "Best Part";
74 q.Genre = "Pop";
75 q.playtime = 431;
76 P = createElement_1301213126(q);
77 insertlast_1301213126(L,P);
78
79 q.Artis = "Daniel Caesar";
80 q.Judul = "Japanese Denim";
```

D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP\_MOD8\_1301213126\_IF4511\main.cpp C/C++ I Windows (CR+LF) WINDOWS-1252 Line 124, Col 19, Pos 3084 Insert Read/Write default

Management x

Projects Files

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TP\_MOD8\_1301213126

Sources

CSLL.cpp

main.cpp

Headers

CSLL.h

CSLL.cpp x main.cpp x CSLL.h x

```
79 q.Artis = "Daniel Caesar";
80 q.Judul = "Japanese Denim";
81 q.Genre = "Pop";
82 q.playtime = 431;
83 P = createElement_1301213126(q);
84 insertlast_1301213126(L,P);
85
86 q.Artis = "Joli";
87 q.Judul = "Sanctuary";
88 q.Genre = "Pop";
89 q.playtime = 300;
90 P = createElement_1301213126(q);
91 insertlast_1301213126(L,P);
92
93 q.Artis = "Cigarette after sex";
94 q.Judul = "Sweet";
95 q.Genre = "Indie";
96 q.playtime = 452;
97 P = createElement_1301213126(q);
98 insertlast_1301213126(L,P);
99
100 q.Artis = "Cigarette after sex";
101 q.Judul = "Apocalypse";
102 q.Genre = "Indie";
103 q.playtime = 451;
104 P = createElement_1301213126(q);
105 insertlast_1301213126(L,P);
106
107 q.Artis = "Frank Ocean";
```

D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP\_MOD8\_1301213126\_IF4511\main.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 124, Col 19, Pos 3084 Insert Read/Write

Management x

Projects Files

rkspase

TP\_MOD8\_1301213126

Sources

CSLL.cpp

main.cpp

Headers

CSLL.h

CSLL.cpp x main.cpp x CSLL.h x

```
106
107 q.Artis = "Frank Ocean";
108 q.Judul = "Ivy";
109 q.Genre = "Pop";
110 q.playtime = 409;
111 P = createElement_1301213126(q);
112 insertlast_1301213126(L,P);
113
114 q.Artis = "Frank Ocean";
115 q.Judul = "Nights";
116 q.Genre = "Pop";
117 q.playtime = 507;
118 P = createElement_1301213126(q);
119 insertlast_1301213126(L,P);
120
121 q.Artis = "Twenty One Pilots";
122 q.Judul = "The Hype";
123 q.Genre = "Pop Punk";
124 q.playtime = 425;
125 P = createElement_1301213126(q);
126 insertlast_1301213126(L,P);
127
128 showSemualagu_1301213126(L);
129
130 deletefirst_1301213126(L);
131
132 showSemualagu_1301213126(L);
133 return 0;
134 }
```

D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP\_MOD8\_1301213126\_IF4511\main.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 124, Col 19, Pos 3084 Insert Read/Write defa

```
D:\DOC\TELKOM\KULOAH\ST x + v
wish you were here - Neck Deep(Pop punk) : 408
wow. - post malone(hip hop) : 229
Drown - Bring Me The Horizon(rock) : 342
Throne - Bring Me The Horizon(rock) : 311
Happy Song - Bring Me The Horizon(rock) : 359
The Hills - The Weeknd(Pop) : 402
Starboy - The Weeknd(Pop) : 350
American Teen - Khalid(Pop) : 411
Don't Look Back In Anger - Oasis(Pop) : 450
Best Part - Daniel Caesar(Pop) : 431
Japanese Denim - Daniel Caesar(Pop) : 431
Sanctuary - Joji(Pop) : 300
Sweet - Cigarette after sx(Indie) : 452
Apocalypse - Cigarette after sx(Indie) : 451
Ivy - Frank Ocean(Pop) : 409
Nights - Frank Ocean(Pop) : 507
The Hype - Twenty One Pilots(Pop Punk) : 425
---selesai---
p) : 431
Japanese Denim - Daniel Caesar(Pop) : 431
Sanctuary - Joji(Pop) : 300
Sweet - Cigarette after sx(Indie) : 452
Apocalypse - Cigarette after sx(Indie) : 451
Ivy - Frank Ocean(Pop) : 409
Nights - Frank Ocean(Pop) : 507
The Hype - Twenty One Pilots(Pop Punk) : 425
---selesai---
wow. - post malone(hip hop) : 229
Drown - Bring Me The Horizon(rock) : 342
Throne - Bring Me The Horizon(rock) : 311
Happy Song - Bring Me The Horizon(rock) : 359
The Hills - The Weeknd(Pop) : 402
Starboy - The Weeknd(Pop) : 350
American Teen - Khalid(Pop) : 411
Don't Look Back In Anger - Oasis(Pop) : 450
Best Part - Daniel Caesar(Pop) : 431
Japanese Denim - Daniel Caesar(Pop) : 431
```

Best Part - Daniel Caesar(Po