

dll.c [double_linked_list] - Code::Blocks 20.03

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INT_MAX <global> delete_node(struct node* start) : node

Management Projects Files FSymbols Workspace double_linked_list

1 #include<stdio.h>
2 #include<malloc.h>
3 #include<stdlib.h>
4
5 struct node{
6 int data;
7 struct node *prev, *next;
8 };
9
10 struct node *start = NULL;
11 struct node* create_ll(struct node *start)
12 {
13 struct node *newnode, *ptr;
14 int num, val;
15 printf("enter -1 to end");
16 printf("\nenter node data:");
17 scanf("%d", &num);
18 while(num != -1)
19 {
20 newnode = (struct node *)malloc(sizeof(struct node));
21 newnode->data = num;
22 newnode->next = NULL;
23
24 if(start == NULL)
25 {
26 start = newnode;
27 newnode->prev = NULL;
28 }
29 else{
30 ptr = start;
31 while(ptr->next != NULL)
32 {
33 ptr = ptr->next;
34 }
35 ptr->next = newnode;
36 newnode->prev = ptr;
37 }
38 printf("enter -1 to end");
39 printf("\nenter node data:");
40 scanf("%d", &num);
41 }
42 }
43
44 int main()
45 {
46 struct node *start = NULL;
47 create_ll(start);
48 display_ll(start);
49 return 0;
50 }

D:\BM23CS245\double_linked_list\bin\Debug\double_linked_list.exe
enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data
3.delete node given the data
4.display the list
1
enter -1 to end
enter node data:1
enter -1 to end
enter node data:2
enter -1 to end
enter node data:3
enter -1 to end
enter node data:4
enter -1 to end
enter node data:5
enter -1 to end
enter node data:-1

double linked list created
enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data
3.delete node given the data
4.display the list
4
1 2 3 4 5
enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data

Logs & others
Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Closed files list Thread search
Set variable: PATH=.;C:\MinGW\bin;C:\MinGW\bin;C:\Windows\System32;C:\Windows\System32\wbem;C:\Users\Admin\AppData\Local\Programs\Python\Python312\Scripts;C:\Users\Admin\AppData\Local\Programs\Python\Python312;C:\Program Files\Oracle\Java\javapath;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\CodeBlocks\MinGW\bin;C:\Users\Admin\Downloads\mongosh-1.6.2-win32-x64 (1)\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\Downloads\mongosh-1.6.2-win32-x64 (1)\mongosh-1.6.2-win32-x64\bin;C:\Program Files\Java\jdk-19\bin;C:\Program Files\Docker\Docker\resources\bin;C:\Program Files\nodejs;C:\ProgramData\chocolatey\bin;C:\Program Files\Git\cmd;C:\Users\Admin\anaconda3;C:\Users\Admin\anaconda3\Library\mingw-w64\bin;C:\Users\Admin\anaconda3\Library\usr\bin;C:\Users\Admin\anaconda3\Library\bin;C:\Users\Admin\anaconda3\Scripts;C:\Program Files\MySQL\MySQL Shell 8.0\bin;C:\Users\Admin\AppData\Local\Microsoft\WindowsApps;C:\Program Files\MySQL\MySQL Workbench 8.0;C:\Users\Admin\AppData\Local\Programs\Microsoft VS Code\bin;D:\MONGODB\mongosh-1.6.2-win32-x64\mongosh-1.6.2-win32-x64\bin;D:\MONGODB\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\AppData\Local\GitHubDesktop\bin;C:\Users\Admin\AppData\Local\Programs\mongosh;C:\Program Files\R\R-4.3.3\bin;C:\Users\Admin\AppData\Roaming\npm;C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.4\bin
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "D:\BM23CS245\double_linked_list\bin\Debug\double_linked_list.exe" (in D:\BM23CS245\double_linked_list\..)

D:\BM23CS245\double_linked_list\dll.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 92, Col 10, Pos 2096 Insert Read/Write default

27-11-2024

dll.c [double_linked_list] - Code::Blocks 20.03

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delete_node(struct node* start) : node

INT_MAX

Management

Projects Files FSymbols

Workspace

double_linked_list

dll.c

```
37 }
38     printf("enter -1 to end");
39     printf("enter node data:");
40     scanf("%d", &num);
41 }
42     return start;
43 };
44
45 struct node* insert_node(struct node *start)
46 {
47     struct node *newnode, *ptr = start;
48     int num, val;
49     printf("enter the value before which node has to be inserted:");
50     scanf("%d", &val);
51     printf("enter the node data:");
52     scanf("%d", &num);
53
54     newnode = (struct node *)malloc(sizeof(struct node));
55     newnode->data = num;
56     while(ptr->data != val)
57     {
58         ptr = ptr->next;
59     }
60     if(ptr->prev == NULL)
61     {
62         newnode->prev = NULL;
63         newnode->next = ptr;
64         start = newnode;
65         return start;
66     }
67     else{
68         newnode->next = ptr;
69         newnode->prev = ptr->prev;
70         ptr->prev->next = newnode;
71         ptr->prev = newnode;
72     }
73     return start;
74 };
75
76 struct node* delete_node(struct node *start)
```

D:\IBM23CS245\double_linked_list\bin\Debug\double_linked_list.exe

```
enter -1 to end
enter node data:-1

double linked list created
enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data
3.delete node given the data
4.display the list
4
1      2      3      4      5
enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data
3.delete node given the data
4.display the list
2
enter the value before which node has to be inserted:1
enter the node data:0

enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data
3.delete node given the data
4.display the list
4
0      1      2      3      4      5
enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Closed files list Thread search

Set variable: PATH=.;C:\MinGW\bin;C:\MinGW\bin;C:\Windows\System32;C:\Windows\System32\wbem;C:\Users\Admin\AppData\Local\Programs\Python\Python312\Scripts;C:\Users\Admin\AppData\Local\Programs\Python\Python312;C:\Program Files\Oracle\Java\javapath;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\CodeBlocks\MinGW\bin;C:\Users\Admin\Downloads\mongosh-1.6.2-win32-x64 (1)\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\Downloads\mongod-atlas-cli_1.4.0_windows_x86_64\bin;C:\Program Files\Java\jdk-19\bin;C:\Program Files\Docker\Docker\resources\bin;C:\Program Files\nodejs;C:\ProgramData\chocolatey\bin;C:\Program Files\Git\cmd;C:\Users\Admin\anaconda3;C:\Users\Admin\anaconda3\Library\mingw-w64\bin;C:\Users\Admin\anaconda3\Library\usr\bin;C:\Users\Admin\anaconda3\Library\bin;C:\Users\Admin\anaconda3\Scripts;C:\Program Files\MySQL\MySQL Shell 8.0\bin;C:\Users\Admin\AppData\Local\Microsoft\WindowsApps;C:\Program Files\MySQL\MySQL Workbench 8.0;C:\Users\Admin\AppData\Local\Programs\Microsoft VS Code\bin;D:\MONGODB\mongosh-1.6.2-win32-x64\mongosh-1.6.2-win32-x64;D:\MONGODB\mongosh-1.6.2-win32-x64\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\AppData\Local\GitHubDesktop\bin;C:\Users\Admin\AppData\Local\Programs\mongosh;C:\Program Files\R\R-4.3\bin;C:\Users\Admin\AppData\Roaming\npm;C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.4\bin

Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "D:\IBM23CS245\double_linked_list\bin\Debug\double_linked_list.exe" (in D:\IBM23CS245\double_linked_list\.)

D:\IBM23CS245\double_linked_list\dll.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 92, Col 10, Pos 2096 Insert Read/Write default

10:21 27-11-2024

dll.c [double_linked_list] - Code::Blocks 20.03

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delete_node(struct node* start): node

INT_MAX

Management

Projects Files FSymbols

Workspace

double_linked_list

```
76 struct node* delete_node(struct node *start)
77 {
78     struct node *temp, *ptr= start;
79     int num;
80     printf("enter the node data to delete:");
81     scanf("%d", &num);
82     while(ptr->data != num)
83     {
84         ptr = ptr->next;
85     }
86     if(ptr->prev == NULL)
87     {
88         start = start->next;
89         free(ptr);
90         return start;
91     }
92     else if(ptr->next == NULL)
93     {
94         ptr->prev->next = NULL;
95         free(ptr);
96         return start;
97     }
98     else{
99         if(ptr->next != NULL && ptr->prev != NULL){
100             temp = ptr->prev;
101             temp->next = ptr->next;
102             ptr->next->prev = temp;
103             free(ptr);
104         }
105         else{
106             temp = ptr;
107             ptr->prev->next = NULL;
108             free(temp);
109         }
110         return start;
111     }
112 };
113
114 struct node* display(struct node *start)
115 {
```

D:\BM23CS245\double_linked_list\bin\Debug\double_linked_list.exe

```
2
enter the value before which node has to be inserted:1
enter the node data:0

enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data
3.delete node given the data
4.display the list
4
0 1 2 3 4 5
enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data
3.delete node given the data
4.display the list
4
0 1 2 4 5
enter choice to perform double linked list operation:
enter:
1.create linked list
2.insert before given node data
3.delete node given the data
```

Logs & others

Code::Blocks X Search results X Cccc X Build log X Build messages X CppCheck/Vera++ X CppCheck/Vera++ messages X Cscope X Debugger X DoxyBlocks X Fortran info X Closed files list X Thread search X

Set variable: PATH=.;C:\MinGW\bin;C:\MinGW\bin;C:\Windows\System32;C:\Windows\System32\wbem;C:\Users\Admin\AppData\Local\Programs\Python\Python312\Scripts;C:\Users\Admin\AppData\Local\Programs\Python\Python312;C:\Program Files\Common Files\Oracle\Java\javapath;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\CodeBlocks\MinGW\bin;C:\Users\Admin\Downloads\mongosh-1.6.2-win32-x64 (1)\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\Downloads\mongodbatlas-cli_1.4.0_windows_x86_64\bin;C:\Program Files\Java\jdk-19\bin;C:\Program Files\Docker\Docker\resources\bin;C:\Program Files\nodejs;C:\ProgramData\chocolatey\bin;C:\Program Files\Git\cmd;C:\Users\Admin\anaconda3;C:\Users\Admin\anaconda3\Library\mingw-w64\bin;C:\Users\Admin\anaconda3\Library\usr\bin;C:\Users\Admin\anaconda3\Library\bin;C:\Users\Admin\anaconda3\Scripts;C:\Program Files\MySQL\MySQL Shell 8.0\bin;C:\Users\Admin\AppData\Local\Microsoft\WindowsApps;C:\Program Files\MySQL\MySQL Workbench 8.0;C:\Users\Admin\AppData\Local\Programs\Microsoft VS Code\bin;D:\MONGODB\mongosh-1.6.2-win32-x64\mongosh-1.6.2-win32-x64;D:\MONGODB\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\AppData\Local\GitHubDesktop\bin;C:\Users\Admin\AppData\Local\Programs\mongosh;C:\Program Files\R\R-4.3.3\bin;C:\Users\Admin\AppData\Roaming\npm;C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.4\bin

Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "D:\BM23CS245\double_linked_list\bin\Debug\double_linked_list.exe" (in D:\BM23CS245\double_linked_list\.)

D:\BM23CS245\double_linked_list\dll.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 92, Col 10, Pos 2096 Insert Read/Write default

10:21 27-11-2024

dll.c [double_linked_list] - Code::Blocks 20.03

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delete_node(struct node* start) : node

INT_MAX

Management

Projects Files FSymbols

Workspace

double_linked_list

```
112 };
```

```
113
```

```
114 struct node* display(struct node *start)
```

```
115 {
```

```
116     struct node *ptr = start;
```

```
117     if(ptr == NULL)
```

```
118     {
```

```
119         printf("\nempty list");
```

```
120         return start;
```

```
121     }
```

```
122     while(ptr != NULL)
```

```
123     {
```

```
124         printf("\t%d", ptr->data);
```

```
125         ptr = ptr->next;
```

```
126     }
```

```
127     return start;
```

```
128 }
```

```
129
```

```
130 int main()
```

```
131 {
```

```
132     int c;
```

```
133
```

```
134     while(1)
```

```
135     {
```

```
136         printf("\nenter choice to perform double linked list operation:");
```

```
137         printf("\nenter:\n1.create linked list\n2.insert before given node data\n3.delete node given the data\n4.display the list\n");
```

```
138         scanf("%d", &c);
```

```
139         switch(c)
```

```
140         {
```

```
141             case 1: start = create_ll(start);
```

```
142             printf("\ndouble linked list created");
```

```
143             break;
```

```
144
```

```
145             case 2: start = insert_node(start);
```

```
146             break;
```

```
147
```

```
148             case 3: start = delete_node(start);
```

```
149             break;
```

```
150
```

```
151             case 4: display(start);
```

dll.c [double_linked_list] - Code::Blocks 20.03

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delete_node(struct node* start) : node

INT_MAX

Management

Projects Files FSymbols

Workspace

double_linked_list

```
121 }
122 while(ptr != NULL)
123 {
124     printf("%t%d", ptr->data);
125     ptr = ptr->next;
126 }
127 return start;
128 };
129
130 int main()
131 {
132     int c;
133
134     while(1)
135     {
136         printf("\nenter choice to perform double linked list operation:");
137         printf("\nenter:\n1.create linked list\n2.insert before given node data\n3.delete node given the data\n4.display the list\n");
138         scanf("%d", &c);
139         switch(c)
140         {
141             case 1: start = create_ll(start);
142             printf("\ndouble linked list created");
143             break;
144
145             case 2: start = insert_node(start);
146             break;
147
148             case 3: start = delete_node(start);
149             break;
150
151             case 4: display(start);
152             break;
153
154             default: exit(0);
155         }
156     }
157     return 0;
158 }
159
```

Logs & others

Code::Blocks X Search results X Cccc X Build log X Build messages X CppCheck/Vera++ X CppCheck/Vera++ messages X Cscope X Debugger X DoxyBlocks X Fortran info X Closed files list X Thread search X

Set variable: PATH=.;C:\MinGW\bin;C:\MinGW\bin;C:\Windows\System32;C:\Windows\System32\wbem;C:\Users\Admin\AppData\Local\Programs\Python\Python312\Scripts;C:\Users\Admin\AppData\Local\Programs\Python\Python312;C:\Program Files\Common Files\Oracle\Java\javapath;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\CodeBlocks\MinGW\bin;C:\Users\Admin\Downloads\mongosh-1.6.2-win32-x64 (1)\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\Downloads\mongodb-atlas-cli_1.4.0_windows_x86_64\bin;C:\Program Files\Java\jdk-19\bin;C:\Program Files\Docker\Docker\resources\bin;C:\Program Files\nodejs;C:\ProgramData\chocolatey\bin;C:\Program Files\Git\cmd;C:\Users\Admin\anaconda3;C:\Users\Admin\anaconda3\Library\mingw-w64\bin;C:\Users\Admin\anaconda3\Library\usr\bin;C:\Users\Admin\anaconda3\Library\bin;C:\Users\Admin\anaconda3\Scripts;C:\Program Files\MySQL\MySQL Shell 8.0\bin;C:\Users\Admin\AppData\Local\Microsoft\WindowsApps;C:\Program Files\MySQL\MySQL Workbench 8.0;C:\Users\Admin\AppData\Local\Programs\Microsoft VS Code\bin;D:\MONGODB\mongosh-1.6.2-win32-x64\mongosh-1.6.2-win32-x64;D:\MONGODB\mongosh-1.6.2-win32-x64\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\AppData\Local\GitHubDesktop\bin;C:\Users\Admin\AppData\Local\Programs\mongosh;C:\Program Files\R\R-4.3.3\bin;C:\Users\Admin\AppData\Roaming\npm;C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.4\bin

Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "D:\1BM23CS245\double_linked_list\bin\Debug\double_linked_list.exe" (in D:\1BM23CS245\double_linked_list\.)

D:\1BM23CS245\double_linked_list\dll.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 92, Col 10, Pos 2096 Insert Read/Write default

10:22 27-11-2024