

single_linked_list_insertion.c [single_linked_list] - Code::Blocks 20.03

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INT_MAX

Management

Projects Files FSymbols

Workspace

single_linked_list

single_linked_list_insertion.c

```
1 #include<stdio.h>
2 #include<malloc.h>
3
4 struct node{
5     int data;
6     struct node *next;
7 };
8
9 struct node* start = NULL;
10 struct node* create_ll(struct node*);
11 struct node* insert_at_beg(struct node*);
12 struct node* insert_at_end(struct node*);
13 struct node* insert_at_position(struct node*);
14 struct node* delete_at_beg(struct node*);
15 struct node* delete_at_end(struct node*);
16 struct node* delete_at_position(struct node*);
17 struct node* display_ll(struct node*);
18
19 int main()
20 {
21     int c;
22     printf("enter:\n1.creating linked list\n2.inserting at beginning\n3.insert at end\n4.insert at given position\n5.delete at beginning\n6.delete at end\n7.delete at given position\n8.display the l
23     scanf("%d", &c);
24     do{
25         switch(c){
26             case 1: start = create_ll(start);
27                     break;
28             case 2: start = insert_at_beg(start);
29                     break;
30             case 3: start = insert_at_end(start);
31                     break;
32             case 4: start = insert_at_position(start);
33                     break;
34             case 5: start = delete_at_beg(start);
35                     break;
36             case 6: start = delete_at_end(start);
37                     break;
38             case 7: start = delete_at_position(start);
39                     break;
40             case 8: start = display_ll(start);
```

Logs & others

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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\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;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:\1BM23CS245\single_linked_list\bin\Debug\single_linked_list.exe" (in D:\1BM23CS245\single_linked_list\.)

D:\1BM23CS245\single_linked_list\single_linked_list_insertion.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 113, Col 17, Pos 3267 Insert Read/Write default

10:57 13-11-2024

single_linked_list_insertion.c [single_linked_list] - Code::Blocks 20.03

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INT_MAX Debug <global> insert_at_position(struct node* start) : node

Management Projects Files FSymbols Workspace single_linked_list

```
40     case 8: start = display_ll(start);
41         break;
42     }
43     printf("\nEnter your choice:");
44     scanf("%d", &c);
45     while(c != 9);
46     return 0;
47 }
48 struct node* create_ll(struct node* start)
49 {
50     struct node* newnode, *ptr;
51     int num;
52     printf("Enter -1 to end\n");
53     printf("Enter node data:");
54     scanf("%d", &num);
55     while(num != -1){
56         newnode = (struct node*) malloc(sizeof(struct node));
57         newnode->data = num;
58         newnode->next = NULL;
59         if(start == NULL)
60         {
61             start = newnode;
62         }
63         else{
64             ptr = start;
65             while(ptr->next != NULL){
66                 ptr = ptr->next;
67             }
68             ptr->next = newnode;
69         }
70         printf("Enter node data:");
71         scanf("%d", &num);
72     }
73     return start;
74 }
75 struct node* insert_at_beg(struct node *start)
76 {
77     struct node *newnode;
78     int num;
79     printf("Enter the node data:");
```

Logs & others

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

D:\1BM23CS245\single_linked_list\single_linked_list_insertion.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 113, Col 17, Pos 3267 Insert Read/Write default

10:57 13-11-2024

single_linked_list_insertion.c [single_linked_list] - Code::Blocks 20.03

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INT_MAX

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Projects Files FSymbols

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single_linked_list

single_linked_list_insertion.c

```
73     return start;
74 };
75 struct node* insert_at_beg(struct node *start)
76 {
77     struct node *newnode;
78     int num;
79     printf("enter the node data:");
80     scanf("%d", &num);
81     newnode = (struct node*) malloc(sizeof(struct node));
82     newnode->data = num;
83     newnode->next = start;
84     start = newnode;
85     return start;
86 };
87 struct node * insert_at_end(struct node *start)
88 {
89     struct node* newnode, *ptr;
90     ptr = start;
91     int num;
92     printf("enter the node data:");
93     scanf("%d", &num);
94     newnode = (struct node*) malloc(sizeof(struct node));
95     newnode->data = num;
96     while(ptr->next != NULL)
97         ptr = ptr->next;
98     ptr->next = newnode;
99     newnode->next = NULL;
100    return start;
101 };
102 struct node* insert_at_position(struct node* start)
103 {
104     struct node* newnode, *ptr;
105     int num, pos, i = 1;
106     printf("\nenter the position to insert:");
107     scanf("%d", &pos);
108     printf("enter the node data:");
109     scanf("%d", &num);
110     newnode = (struct node*) malloc(sizeof(struct node));
111     newnode->data = num;
112     ptr = start;
```

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\bin;C:\Program Files\Java\jdk-19\bin;C:\Program Files\Docker\Docker\resources\bin;C:\Program Files\nodejs;C:\Program Files\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

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INT_MAX

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single_linked_list

```
103 {
104     struct node* newnode, *ptr;
105     int num, pos, i = 1;
106     printf("\nEnter the position to insert:");
107     scanf("%d", &pos);
108     printf("Enter the node data:");
109     scanf("%d", &num);
110     newnode = (struct node*) malloc(sizeof(struct node));
111     newnode->data = num;
112     ptr = start;
113     while(pos!=i)
114     {
115         i++;
116         ptr = ptr->next;
117     }
118     newnode->next = ptr->next;
119     ptr->next = newnode;
120     return start;
121 };
122 struct node* delete_at_beg(struct node *start)
123 {
124     struct node *ptr;
125     ptr = start;
126     start = ptr->next;
127     free(ptr);
128     return start;
129 };
130 struct node* delete_at_end(struct node *start)
131 {
132     struct node *preptr, *ptr;
133     ptr = start;
134     if(ptr->next == NULL){
135         start = delete_at_beg(start);
136         return start;
137     }
138     else{
139         while(ptr->next != NULL)
140         {
141             preptr = ptr;
142             ptr = ptr->next;
```

Logs and others

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D:\1BM23CS245\single_linked_list\single_linked_list_insertion.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 113, Col 17, Pos 3267 Insert Read/Write default

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single_linked_list_insertion.c [single_linked_list] - Code::Blocks 20.03

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INT_MAX Debug <global> insert_at_position(struct node* start) : node

Management Projects Files FSymbols Workspace single_linked_list

```
136     return start;
137 }
138 else{
139     while(ptr->next != NULL)
140     {
141         preptr = ptr;
142         ptr = ptr->next;
143     }
144     preptr->next = NULL;
145     free(ptr);
146     return start;
147 }
148 };
149 struct node* delete_at_position(struct node * start)
150 {
151     struct node *ptr, *preptr;
152     int pos, i = 0;
153     printf("\nEnter the position to delete:");
154     scanf("%d", &pos);
155     ptr = start;
156     while(pos != i)
157     {
158         i++;
159         preptr = ptr;
160         ptr = ptr->next;
161     }
162     preptr->next = ptr->next;
163     free(ptr);
164     return start;
165 };
166 struct node* display_ll(struct node *start)
167 {
168     struct node* ptr;
169     ptr = start;
170     while(ptr != NULL)
171     {
172         printf("\t%d", ptr->data);
173         ptr = ptr->next;
174     }
175     return start;
176 }
```

Logs & others

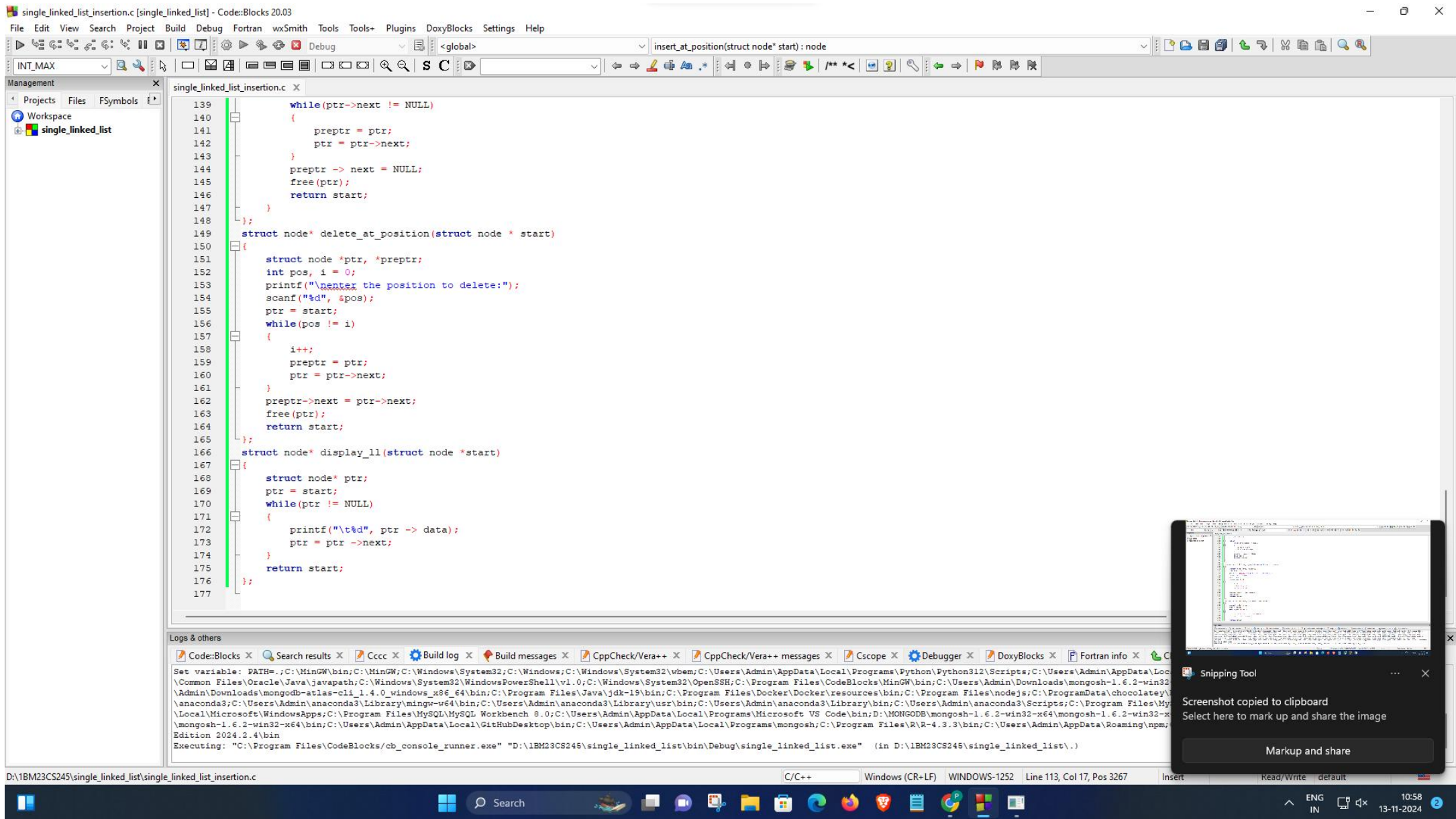
Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Closed files list Thread search

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D:\IBM23CS245\single_linked_list\single_linked_list_insertion.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 113, Col 17, Pos 3267 Insert Read/Write default

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D:\1BM23CS245\single_linked_list\bin\Debug\single_linked_list.exe

```
enter:
1.creating linked list
2.inserting at beginning
3.insert at end
4.insert at given position
5.delete at beginning
6.delete at end
7.delete at given position
8.display the linked list
9.exit
1
enter -1 to end
enter node data:10
enter node data:20
enter node data:30
enter node data:-1

enter your choice:8
    10    20    30
enter your choice:2
enter the node data:5

enter your choice:8
    5    10    20    30
enter your choice:3
enter the node data:35

enter your choice:8
    5    10    20    30    35
enter your choice:4

enter the position to insert:2
enter the node data:15

enter your choice:8
    5    15    10    20    30    35
enter your choice:5

enter your choice:8
    15    10    20    30    35
enter your choice:6

enter your choice:8
    15    10    20    30
enter your choice:7

enter the position to delete:2

enter your choice:8
    15    10    30
enter your choice:9

Process returned 0 (0x0)   execution time : 88.078 s
Press any key to continue.
```



Search



ENG
IN



10:55
13-11-2024

