

linked_list.c [sort_reverse_concat] - Code::Blocks 20.03

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INT_MAX

queue_ll.c x linked_list_stack.c x linked_list.c x

Management

Projects Files FSymbols

Workspace

queue_linked_list

Sources

queue_ll.c

stack_using_ll

sort_reverse_concat

Sources

```
1 #include<stdio.h>
2 #include<malloc.h>
3 #include<stdio.h>
4
5 struct node{
6     int data;
7     struct node *next;
8 };
9
10 struct node *start = NULL, *start1, *start2;
11
12 struct node* create_ll(struct node *start)
13 {
14     struct node *newnode, *ptr;
15     int num;
16     printf("enter -1 to end\n");
17     printf("enter node data:");
18     scanf("%d", &num);
19     while(num != -1)
20     {
21         newnode = (struct node*) malloc(sizeof(struct node));
22         newnode->data = num;
23         newnode->next = NULL;
24         if(start == NULL)
25             start = newnode;
26         else{
27             ptr = start;
28             while(ptr->next != NULL)
29             {
30                 ptr = ptr->next;
31             }
32             ptr->next = newnode;
33         }
34         printf("enter node data:");
35         scanf("%d", &num);
36     }
37     return start;
38 };
39
40 struct node* sorting(struct node *start)
```

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

enter you choice:
*****MENU*****
1.sorting
2.reversing
3.concatenation
4.exit
1
enter linked list details:
enter -1 to end
enter node data:9
enter node data:8
enter node data:-2
enter node data:0
enter node data:-1
original list:
9 8 -2 0
after sorting:
-2 0 8 9
enter you choice:
*****MENU*****
1.sorting
2.reversing
3.concatenation
4.exit
2
enter linked list details:
enter -1 to end
enter node data:1
enter node data:2
enter node data:3
enter node data:-1
original list:
1 2 3
after reversing:
3 2 1
enter you choice:
*****MENU*****
1.sorting

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\bin;C:\Users\Admin\Downloads\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\bin;D:\MONGODB\mongosh-1.6.2-win32-x64\bin;D:\MONGODB\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:\IBM23CS245\sort_reverse_concat\bin\Debug\sort_reverse_concat.exe" (in D:\IBM23CS245\sort_reverse_concat\..)

D:\IBM23CS245\sort_reverse_concat\linked_list.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 157, Col 27, Pos 3888 Insert Read/Write default

Search

10:50 20-11-2024

linked_list.c [sort_reverse_concat] - Code::Blocks 20.03

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INT_MAX

Management

Projects Files FSymbols

Workspace

- queue_linked_list
 - Sources
 - queue_ll.c
 - stack_using_ll
 - sort_reverse_concat
 - Sources

```
40 struct node* sorting(struct node *start)
41 {
42     struct node *ptr1, *ptr2;
43     ptr1 = start;
44     while(ptr1->next != NULL)
45     {
46         ptr2 = ptr1->next;
47         while(ptr2 != NULL)
48         {
49             if(ptr1->data > ptr2->data)
50             {
51                 int temp = ptr1->data;
52                 ptr1->data = ptr2->data;
53                 ptr2->data = temp;
54             }
55             ptr2 = ptr2->next;
56         }
57         ptr1 = ptr1->next;
58     }
59     return start;
60 }
61
62 struct node* reversing (struct node *start)
63 {
64     struct node *prev, *curr, *next;
65     curr = start;
66     prev = next = NULL;
67     while(curr != NULL)
68     {
69         next = curr->next;
70         curr->next = prev;
71         prev = curr;
72         curr = next;
73     }
74     start = prev;
75     return start;
76 }
77
78 struct node* concatenation(struct node *start1, struct node *start2)
79 {
```

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

```
after reversing:
3      2      1
enter you choice:
*****MENU*****
1.sorting
2.reversing
3.concatenation
4.exit
3
enter 2 linked list details:
enter -1 to end
enter node data:1
enter node data:-1
enter -1 to end
enter node data:-1
original list1:
1
original list2:

after concatenation:
1
enter you choice:
*****MENU*****
1.sorting
2.reversing
3.concatenation
4.exit
3
enter 2 linked list details:
enter -1 to end
enter node data:-1
enter -1 to end
enter node data:1
enter node data:-1
original list1:

original list2:
1
```

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

D:\1BM23CS245\sort_reverse_concat\linked_list.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 157, Col 27, Pos 3888 Insert Read/Write default

10:51 20-11-2024

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INT_MAX

Management

queue_ll.c x linked_list_stack.c x linked_list.c x

Workspace

- queue_linked_list
- stack_using_ll
- sort_reverse_concat

```
76 };
77
78 struct node* concatenation(struct node *start1, struct node *start2)
79 {
80     if(start1 == NULL && start2==NULL)
81     {
82         printf("empty list");
83         return start1;
84     }
85     else if(start1 == NULL)
86         return start2;
87     else if(start2 == NULL)
88         return start1;
89     else{
90         struct node *ptr = start1;
91         if(ptr->next == NULL)
92         {
93             ptr->next = start2;
94         }
95         else{
96             while(ptr->next != NULL)
97                 ptr = ptr->next;
98             ptr->next = start2;
99         }
100         return start1;
101     }
102 };
103
104 struct node* display_ll(struct node *start)
105 {
106     struct node *ptr = start;
107     while(ptr != NULL)
108     {
109         printf("\t%d", ptr->data);
110         ptr = ptr->next;
111     }
112     return start;
113 };
114
115 int main()
```

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

```
enter node data:-1
original list1:
original list2:
1
after concatenation:
1
enter you choice:
*****MENU*****
1.sorting
2.reversing
3.concatenation
4.exit
3
enter 2 linked list details:
enter -1 to end
enter node data:1
enter node data:2
enter node data:-1
enter -1 to end
enter node data:3
enter node data:4
enter node data:-1
original list1:
1 2
original list2:
3 4
after concatenation:
1 2 3 4
enter you choice:
*****MENU*****
1.sorting
2.reversing
3.concatenation
4.exit
4
Process returned 0 (0x0) execution time : 64.610 s
```

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

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D:\IBM23CS245\sort_reverse_concat\linked_list.c

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INT_MAX

Management

Workspace

queue_linked_list

Sources

queue_ll.c

stack_using_ll

sort_reverse_concat

Sources

```
115 int main()
116 {
117     int c;
118     printf("enter you choice:");
119     printf("\n*****MENU*****\n1.sorting\n2.reversing\n3.concatenation\n4.exit\n");
120     scanf("%d", &c);
121
122     while(c != 4)
123     {
124         switch(c)
125         {
126             case 1: printf("enter linked list details:\n");
127                     start = create_ll(start);
128                     printf("original list:\n");
129                     start=display_ll(start);
130                     printf("\nafter sorting:\n");
131                     start = sorting(start);
132                     start = display_ll(start);
133                     start = NULL;
134                     break;
135
136             case 2: printf("enter linked list details:\n");
137                     start = create_ll(start);
138                     printf("original list:\n");
139                     start=display_ll(start);
140                     printf("\nafter reversing:\n");
141                     start = reversing(start);
142                     start = display_ll(start);
143                     start = NULL;
144                     break;
145
146             case 3: printf("enter 2 linked list details:\n");
147                     start1 = create_ll(start1);
148                     start2 = create_ll(start2);
149                     printf("original list1:\n");
150                     start1=display_ll(start1);
151                     printf("\noriginal list2:\n");
152                     start2=display_ll(start2);
153                     printf("\nafter concatenation:\n");
154                     start1 = concatenation(start1, start2);
```

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

```
1.sorting
2.reversing
3.concatenation
4.exit
3
enter 2 linked list details:
enter -1 to end
enter node data:1
enter node data:2
enter node data:-1
enter -1 to end
enter node data:3
enter node data:4
enter node data:-1
original list1:
1 2
original list2:
3 4
after concatenation:
1 2 3 4
enter you choice:
*****MENU*****
1.sorting
2.reversing
3.concatenation
4.exit
4

Process returned 0 (0x0) execution time : 64.610 s
Press any key to continue.
```

Logs & others

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D:\IBM23CS245\sort_reverse_concat\linked_list.c

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