

stack.c - Code::Blocks 20.03

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Management Projects Files FSymbols Workspace

Start here x stack.x

```
36     rear->next = newnode;
37     rear = newnode;
38   }
39   printf("Enqueued %d into queue\n", value);
40 }
41 void dequeue() {
42   struct node *temp;
43   if (front == NULL) {
44     printf("Queue is empty\n");
45   } else {
46     temp = front;
47     printf("Dequeued element: %d\n", front->data);
48     front = front->next;
49     free(temp);
50   }
51 }
52 int main() {
53   int choice, value;
54   while (1) {
55     printf("\n1. Push (Stack)");
56     printf("\n2. Pop (Stack)");
57     printf("\n3. Enqueue (Queue)");
58     printf("\n4. Dequeue (Queue)");
59     printf("\n5. Exit");
60     printf("\nEnter choice: ");
61     scanf("%d", &choice);
62     switch (choice) {
63     case 1:
64       printf("Enter value: ");
65       scanf("%d", &value);
66       push(value);
67       break;
68     case 2:
69       pop();
70       break;
71     case 3:
72       printf("Enter value: ");
73       scanf("%d", &value);
74       enqueue(value);
75       break;
76     case 4:
77       dequeue();
78       break;
79     case 5:
80       exit(0);
81     default:
82       printf("Invalid choice\n");
83   }
84 }
85 }
```

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stack.c - Code::Blocks 20.03

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Management Start here stack.c

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```
1 #include <stdio.h>
2 #include <stdlib.h>
3 struct node {
4     int data;
5     struct node *next;
6 };
7 struct node *top = NULL;
8 struct node *front = NULL, *rear = NULL;
9 void push(int value) {
10     struct node *newnode;
11     newnode = (struct node *)malloc(sizeof(struct node));
12     newnode->data = value;
13     newnode->next = top;
14     top = newnode;
15     printf("Pushed %d into stack\n", value);
16 }
17 void pop() {
18     struct node *temp;
19     if (top == NULL) {
20         printf("Stack is empty\n");
21     } else {
22         temp = top;
23         printf("Popped element: %d\n", top->data);
24         top = top->next;
25         free(temp);
26     }
27 }
28 void enqueue(int value) {
29     struct node *newnode;
30     newnode = (struct node *)malloc(sizeof(struct node));
31     newnode->data = value;
32     newnode->next = NULL;
33     if (front == NULL) {
34         front = rear = newnode;
35     } else {
36         rear->next = newnode;
37         rear = newnode;
38     }
39     printf("Enqueued %d into queue\n", value);
40 }
41 void dequeue() {
42     struct node *temp;
43     if (front == NULL) {
44         printf("Queue is empty\n");
45     } else {
46         temp = front;
47         printf("Dequeued element: %d\n", front->data);
48         front = front->next;
49         free(temp);
50     }
51 }
```

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*sort.c - Code::Blocks 20.03

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Projects Files FSymbols Workspace

```
74 }
75 int main() {
76     struct Node *list1 = NULL, *list2 = NULL;
77     int choice, value;
78     while (1) {
79         printf("\n---- MENU ----\n");
80         printf("1. Insert into List 1\n2. Insert into List 2\n3. Display List 1\n4. Sort List 1\n5. Reverse List 1\n6. Concatenate List1 + List2\n7. Exit\n");
81         printf("Enter your choice: ");
82         scanf("%d", &choice);
83         switch (choice)
84         {
85             case 1:
86                 printf("Enter value: ");
87                 scanf("%d", &value);
88                 insertEnd(&list1, value);
89                 break;
90
91             case 2:
92                 printf("Enter value: ");
93                 scanf("%d", &value);
94                 insertEnd(&list2, value);
95                 break;
96
97             case 3:
98                 display(list1);
99                 break;
100
101            case 4:
102                sortList(list1);
103                printf("List Sorted.\n");
104                break;
105
106            case 5:
107                reverse(&list1);
108                printf("List Reversed.\n");
109                break;
110
111            case 6:
112                list1 = concatenate(list1, list2);
113                printf("Lists concatenated.\n");
114                break;
115
116            case 7:
117                exit(0);
118
119            default:
120                printf("Invalid choice!\n");
121         }
122     }
123 }
124 }
```

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*sort.c - Code::Blocks 20.03

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Management Start here *sort.c

Projects Files FSymbols Workspace

```
49 }
50 void sortList(struct Node *head) {
51     struct Node *i, *j;
52     int temp;
53     for (i = head; i != NULL; i = i->next)
54     {
55         for (j = i->next; j != NULL; j = j->next)
56         {
57             if (i->data > j->data)
58             {
59                 temp = i->data;
60                 i->data = j->data;
61                 j->data = temp;
62             }
63         }
64     }
65 }
66 struct Node* concatenate(struct Node *list1, struct Node *list2) {
67     if (list1 == NULL) return list2;
68     if (list2 == NULL) return list1;
69     struct Node *temp = list1;
70     while (temp->next != NULL)
71         temp = temp->next;
72     temp->next = list2;
73     return list1;
74 }
75 int main() {
76     struct Node *list1 = NULL, *list2 = NULL;
77     int choice, value;
78     while (1) {
79         printf("\n---- MENU ----\n");
80         printf("1. Insert into List 1\n2. Insert into List 2\n3. Display List 1\n4. Sort List 1\n5. Reverse List 1\n6. Concatenate List1 + List2\n7. Exit\n");
81         printf("Enter your choice: ");
82         scanf("%d", &choice);
83         switch (choice)
84         {
85             case 1:
86                 printf("Enter value: ");
87                 scanf("%d", &value);
88                 insertEnd(&list1, value);
89                 break;
90
91             case 2:
92                 printf("Enter value: ");
93                 scanf("%d", &value);
94                 insertEnd(&list2, value);
95                 break;
96
97             case 3:
98                 display(list1);
99                 break;

```

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C:\Users\Admin\Desktop\sort.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 82, Col 30, Pos 2123 Insert Modified Read/Write default

*sort.c - Code::Blocks 20.03

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Management Start here *sort.c

Projects Files FSymbols Workspace

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 struct Node {
4     int data;
5     struct Node *next;
6 };
7 struct Node* createNode(int data) {
8     struct Node *newNode = (struct Node*) malloc(sizeof(struct Node));
9     newNode->data = data;
10    newNode->next = NULL;
11    return newNode;
12 }
13 void insertEnd(struct Node **head, int data) {
14     struct Node *newNode = createNode(data);
15     if (*head == NULL)
16     {
17         *head = newNode;
18         return;
19     }
20     struct Node *temp = *head;
21     while (temp->next != NULL)
22         temp = temp->next;
23
24     temp->next = newNode;
25 }
26 void display(struct Node *head) {
27     if (head == NULL)
28     {
29         printf("List is empty\n");
30         return;
31     }
32     while (head != NULL) {
33         printf("%d ", head->data);
34         head = head->next;
35     }
36     printf("\n");
37 }
38
39 void reverse(struct Node **head) {
40     struct Node *prev = NULL, *curr = *head, *next = NULL;
41     while (curr != NULL)
42     {
43         next = curr->next;
44         curr->next = prev;
45         prev = curr;
46         curr = next;
47     }
48     *head = prev;
49 }
50 void sortList(struct Node *head) {
51     struct Node *i, *j;
```

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C:\Users\Admin\Downloads\lstack.exe

```
MENU 1. Push  
2. Pop  
3. Display  
4. Exit  
Enter choice: 3  
Stack is empty  
MENU 1. Push  
2. Pop  
3. Display  
4. Exit  
Enter choice: 1  
Enter value: 10  
MENU 1. Push  
2. Pop  
3. Display  
4. Exit  
Enter choice: 1  
Enter value: 20  
MENU 1. Push  
2. Pop  
3. Display  
4. Exit  
Enter choice: 1  
Enter value: 30  
MENU 1. Push  
2. Pop  
3. Display  
4. Exit  
Enter choice: 2  
Popped: 30  
MENU 1. Push  
2. Pop  
3. Display  
4. Exit  
Enter choice: 2  
Popped: 20  
MENU 1. Push  
2. Pop  
3. Display  
4. Exit  
Enter choice: 3  
Stack: 10  
MENU 1. Push  
2. Pop  
3. Display  
4. Exit  
Enter choice: 4
```

Process returned 0 (0x0) execution time : 68.946 s

Press any key to continue.

Type here to search



C:\Users\Admin\Downloads\lsort.exe

3. Display List 1
4. Sort List 1
5. Reverse list 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 2
Enter value: 84

.... MENU

1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 5
List Reversed.

.... MENU

1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 3
38 47

.... MENU

1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 4
List Sorted.

.... MENU

1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 3
38 47

.... MENU

1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 6
Lists concatenated.

Type here to search



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C:\Users\Admin\Downloads\lshort.exe

```
---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit
```

Enter your choice: 1
Enter value: 47

```
---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit
```

Enter your choice: 1
Enter value: 30

```
---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit
```

Enter your choice: 3
47 30

```
---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit
```

Enter your choice: 2
Enter value: 74

```
---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit
```

Enter your choice: 2
Enter value: 84

```
---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
```

---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2

Type here to search



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C:\Users\Admin\Downloads\lsort.exe

3. Display List 1
4. Sort List 1
5. Reverse list 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 4
List Sorted.

---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 3
30 47

---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 6
Lists concatenated.

---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 3
38 47 74 84

---- MENU ----
1. Insert into List 1
2. Insert into List 2
3. Display List 1
4. Sort List 1
5. Reverse List 1
6. Concatenate List1 + List2
7. Exit

Enter your choice: 7

Process returned 0 (0x0) execution time : 157.337 s
Press any key to continue.

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