



Start here X Linked_lists_sort_reverse_concatenate.c X

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```
void sortList(struct Node *head) {  
    if (head == NULL) return;  
    struct Node *current = head, *index = NULL;  
    int temp;  
  
    while (current != NULL) {  
        index = current->next;  
        while (index != NULL) {  
            if (current->data > index->data) {  
                temp = current->data;  
                current->data = index->data;  
                index->data = temp;  
            }  
            index = index->next;  
        }  
        current = current->next;  
    }  
}  
  
struct Node* reverselist(struct Node *head) {  
    struct Node *prev = NULL, *current = head, *next = NULL;  
  
    while (current != NULL) {  
        next = current->next;  
        current->next = prev;  
        prev = current;  
        current = next;  
    }  
    return prev;  
}  
  
struct Node* concatenate(struct Node *head1, struct Node *head2) {  
    if (head1 == NULL) return head2;  
    struct Node *temp = head1;  
    while (temp->next != NULL)  
        temp = temp->next;  
    temp->next = head2;  
    return head1;  
}
```

Logs & others

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Editorfile Project Projectfile

Activate Windows
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h C:\CS185\Linked_lists_sort_reverse_concatenate.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 22, Col 18, Pos 504 Insert Read/Write default ENG 11:43:40 AM 17-11-2025

```
temp = temp->next;
temp->next = head2;
return head1;
}

int main() {
    struct Node *list1 = NULL, *list2 = NULL;
    int choice, value, list_choice;

    while (1) {
        printf("\nMenu:\n");
        printf("1. Insert into List 1\n");
        printf("2. Insert into List 2\n");
        printf("3. Display Lists\n");
        printf("4. Sort List\n");
        printf("5. Reverse List\n");
        printf("6. Concatenate Lists\n");
        printf("7. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);

        switch (choice) {
            case 1:
                printf("Enter value to insert in List 1: ");
                scanf("%d", &value);
                insertEnd(&list1, value);
                break;
            case 2:
                printf("Enter value to insert in List 2: ");
                scanf("%d", &value);
                insertEnd(&list2, value);
                break;
            case 3:
                printf("List 1: ");
                display(list1);
                printf("List 2: ");
                display(list2);
                break;
            case 4:
                printf("Sort which list (1 or 2)? ");
                scanf("%d", &list_choice);
        }
    }
}
```

```

temp = temp->next;
temp->next = head2;
return head1;
}

int main() {
    struct Node *list1 = NULL, *list2 = NULL;
    int choice, value, list_choice;

    while (1) {
        printf("\nMenu:\n");
        printf("1. Insert into List 1\n");
        printf("2. Insert into List 2\n");
        printf("3. Display Lists\n");
        printf("4. Sort List\n");
        printf("5. Reverse List\n");
        printf("6. Concatenate Lists\n");
        printf("7. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);

        switch (choice) {
            case 1:
                printf("Enter value to insert in List 1: ");
                scanf("%d", &value);
                insertEnd(&list1, value);
                break;
            case 2:
                printf("Enter value to insert in List 2: ");
                scanf("%d", &value);
                insertEnd(&list2, value);
                break;
            case 3:
                printf("List 1: ");
                display(list1);
                printf("List 2: ");
                display(list2);
                break;
            case 4:
                printf("Sort which list (1 or 2)? ");
                scanf("%d", &list_choice);

```

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Project Projectfile

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city_sort_reverse_concatenate.c C/C++ Windows (CR-LP) WINDOWS-1252 Line 22, Col 18, Pos 304 Insert Read/Write default ENG 11:44:02 AM 17-11-2025



```
Start here X Linked_lists_sort_reverse_concatenate.c X
104     printf("Enter value to insert in List 2: ");
105     scanf("%d", &value);
106     insertEnd(&list2, value);
107     break;
108
109     case 3:
110         printf("List 1: ");
111         display(list1);
112         printf("List 2: ");
113         display(list2);
114         break;
115
116     case 4:
117         printf("Sort which list (1 or 2)? ");
118         scanf("%d", &list_choice);
119         if (list_choice == 1)
120             sortList(list1);
121         else
122             sortList(list2);
123         break;
124
125     case 5:
126         printf("Reverse which list (1 or 2)? ");
127         scanf("%d", &list_choice);
128         if (list_choice == 1)
129             list1 = reverseList(list1);
130         else
131             list2 = reverseList(list2);
132         break;
133
134     case 6:
135         list1 = concatenate(list1, list2);
136         list2 = NULL;
137         printf("Lists concatenated. List 1 now contains both lists.\n");
138         break;
139
140     case 7:
141         exit(0);
142
143     default:
144         printf("Invalid choice. Try Again.\n");
145
146 }
147
148 return 0;
149 }
```

Logs & others

CodeBlocks X Search results X Cccc X Build log X Build messages X CppCheck/Ver++ X CppCheck/Ver++ messages X Cscope X Debugger X DoxyBlocks X Fortran info X Closed files list X Thread search X

Editorfile Project Projectfile

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C/C++ Windows (CR+LF) WINDOWS-1252 Line 128, Col 48, Pos 3571 Insert Read/Write default

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```
Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice: 1
Enter value to insert in List 1: 23
```

```
Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice: 2
Enter value to insert in List 2: 65
```

```
Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice: 3
List 1: 23
List 2: 65
```

```
Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice: 1
Enter value to insert in List 1: 55
```

```
Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice: 2
Enter value to insert in List 2: 78
```

```
Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
```

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3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit

Enter your choice: 2
Enter value to insert in List 2: 78

Menu:

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

Enter your choice: 3
List 1: 23 55
List 2: 65 78

Menu:

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

Enter your choice: 5
Reverse which list (1 or 2)? 2

Menu:

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

Enter your choice: 3
List 1: 23 55
List 2: 78 65

Menu:

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

Enter your choice: 6
Lists concatenated. List 1 now contains both lists.

Menu:

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

Enter your choice: 1

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C:\Users\Admin\Desktop\Nidhi\TBM24CS185\Linked_lists_sort_reverse_concatenate.exe

```
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice: 3
List 1: 23 55
List 2: 78 65

Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice: 6
Lists concatenated. List 1 now contains both lists.

Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice: 1
Enter value to insert in List 1: 23

Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice: 3
List 1: 23 55 78 65 23
List 2: List is empty

Menu:
1. Insert into List 1
2. Insert into List 2
3. Display Lists
4. Sort List
5. Reverse List
6. Concatenate Lists
7. Exit
Enter your choice:
```

Activate Windows
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