

C:\Users\mada\OneDrive\Documents\singly listed list.cpp - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug combine two singly linked list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display..cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using linked list.c singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly linked list.cpp

```
1 #include <stdio.h>
2 struct Node {
3     int data;
4     struct Node* next;
5 };
6
7 void printList(struct Node* n) {
8     while (n != NULL) {
9         printf("%d ", n->data);
10        n = n->next;
11    }
12 }
13
14 int main() {
15     struct Node* head = NULL;
16     struct Node* second = NULL;
17     struct Node* third = NULL;
18
19     head = (struct Node*)malloc(sizeof(struct Node));
20     second = (struct Node*)malloc(sizeof(struct Node));
21     third = (struct Node*)malloc(sizeof(struct Node));
22
23     head->data = 1;
24     head->next = second;
25
26     second->data = 2;
27     second->next = third;
28
29     third->data = 3;
30     third->next = NULL;
31
32     printList(head);
33
34     return 0;
35 }
```

Compiler (2) Resources Compile Log Debug Find Results Close

Line Col File Message

C:\Users\mada\OneDrive\Documents\Search an Item in doubly Linked List.cpp In function 'int main()':

C:\Users\mada1\OneDrive\Documents\Display doubly Linked List in Reverse.cpp - Dev-C++ 5.11

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Project Classes Debug singly listed list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display.cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using linked list.cpp singly listed list in reverse.cpp Find size of a singly Linked List.cpp Search an item in doubly Linked List.cpp Update an item in singly Linked List.cpp remove an item from doubly linked list.cpp

```
1 #include <stdio.h>
2 struct Node {
3     int data;
4     struct Node* next;
5     struct Node* prev;
6 };
7 void reversePrint(struct Node* node) {
8     struct Node* last = NULL;
9     printf("Reversed Linked list: ");
10    while (node != NULL) {
11        last = node;
12        node = node->next;
13    }
14    while (last != NULL) {
15        printf("%d ", last->data);
16        last = last->prev;
17    }
18 }
19
20 int main() {
21     struct Node* head = NULL;
22     struct Node* second = NULL;
23     struct Node* third = NULL;
24
25     head = (struct Node*)malloc(sizeof(struct Node));
26     second = (struct Node*)malloc(sizeof(struct Node));
27     third = (struct Node*)malloc(sizeof(struct Node));
28
29     head->data = 1;
30     head->next = second;
31     head->prev = NULL;
32
33     second->data = 2;
34     second->next = third;
35     second->prev = head;
36 }
```

Compiler (2) Resources Compile Log Debug Find Results Close

Line Col File Message C:\Users\mada1\OneDrive\Documents\Search an Item in... In function 'int main()':

C:\Users\mada\OneDrive\Documents\Find size of a singly Linked List.cpp - Dev-C++ 5.11

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Project Classes Debug combine two singly linked list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display.cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using li singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly lin

```
1 #include <stdio.h>
2 struct Node {
3     int data;
4     struct Node* next;
5     struct Node* prev;
6 };
7
8 void reversePrint(struct Node* node) {
9     struct Node* last = NULL;
10    printf("Reversed Linked List: ");
11    while (node != NULL) {
12        last = node;
13        node = node->next;
14    }
15    while (last != NULL) {
16        printf("%d ", last->data);
17        last = last->prev;
18    }
19 }
20
21 int main() {
22     struct Node* head = NULL;
23     struct Node* second = NULL;
24     struct Node* third = NULL;
25
26     head = (struct Node*)malloc(sizeof(struct Node));
27     second = (struct Node*)malloc(sizeof(struct Node));
28     third = (struct Node*)malloc(sizeof(struct Node));
29
30     head->data = 1;
31     head->next = second;
32     head->prev = NULL;
33
34     second->data = 2;
35     second->next = third;
36     second->prev = head;
37 }
```

Compiler (2) Resources Compile Log Debug Find Results Close

Line Col File Message

C:\Users\mada\OneDrive\Documents\Search an Ite... In function 'int main()':

C:\Users\mada\OneDrive\Documents\Search an Item in doubly Linked List.cpp - Dev-C++ 5.11

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Project Classes Debug combine two singly linked list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display.cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly linked list.cpp

```
1 #include <stdio.h>
2 struct Node {
3     int data;
4     struct Node* prev;
5     struct Node* next;
6 };
7 void search(struct Node* head, int key) {
8     struct Node* current = head;
9     while (current != NULL) {
10         if (current->data == key) {
11             printf("Key found in the list.");
12             return;
13         }
14         current = current->next;
15     }
16     printf("Key not found in the list.");
17 }
18
19 int main() {
20     struct Node* head = NULL;
21     struct Node* second = NULL;
22     struct Node* third = NULL;
23
24     head = (struct Node*)malloc(sizeof(struct Node));
25     second = (struct Node*)malloc(sizeof(struct Node));
26     third = (struct Node*)malloc(sizeof(struct Node));
27
28     head->data = 1;
29     head->prev = NULL;
30     head->next = second;
31
32     second->data = 2;
33     second->prev = head;
34     second->next = third;
35 }
```

Compiler (2) Resources Compile Log Debug Find Results Close

Line Col File Message

C:\Users\mada\OneDrive\Documents\Search an Item in doubly Linked List.cpp In function 'int main()':

C:\Users\mada\OneDrive\Documents\Update an Item in singly Linked List.cpp - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

Project Classes Debug combine two singly linked list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display.cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using linked singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly linked

C:\Users\mada\OneDrive\Documents\Update an Item in singly Linked List.cpp

```
1 #include <stdio.h>
2 struct Node {
3     int data;
4     struct Node* next;
5 };
6
7 void updateItem(struct Node* head, int position, int newData) {
8     struct Node* temp = head;
9     int count = 0;
10
11     while (temp != NULL) {
12         if (count == position) {
13             temp->data = newData;
14             break;
15         }
16         count++;
17         temp = temp->next;
18     }
19 }
20
21 int main() {
22     struct Node* head = NULL;
23     struct Node* second = NULL;
24     struct Node* third = NULL;
25
26     head = (struct Node*)malloc(sizeof(struct Node));
27     second = (struct Node*)malloc(sizeof(struct Node));
28     third = (struct Node*)malloc(sizeof(struct Node));
29
30     head->data = 1;
31     head->next = second;
32
33     second->data = 2;
34     second->next = third;
35 }
```

Compiler (2) Resources Compile Log Debug Find Results Close

Line Col File C:\Users\mada\OneDrive\Documents\Search an Item in... In function 'int main()': [Error] 'malloc' was not declared in this scope

The screenshot shows the Dev-C++ IDE interface with the following details:

- Title Bar:** C:\Users\mada\OneDrive\Documents\remove an item from doubly linked list.cpp - Dev-C++ 5.11
- Menu Bar:** File Edit Search View Project Execute Tools AStyle Window Help
- Toolbar:** Includes icons for New, Open, Save, Print, Find, Copy, Paste, Cut, Undo, Redo, and others.
- Build Bar:** TDH-GCC 4.9.2 64-bit Release
- Project Bar:** Shows tabs for "globals" and several project files: singly listed list.cpp, Display doubly Linked List in Reverse.cpp, Create and stack with a size of 12 and insert 7 elements to display.cpp, execute infix to postfix.cpp, smallest element in stack.cpp, implement stack using linked list.cpp, singly linked list.cpp, split doubly linked list into two.cpp, Find size of a singly Linked List.cpp, Search an Item in doubly Linked List.cpp, Update an Item in singly Linked List.cpp, and remove an item from doubly linked list.cpp.
- Code Editor:** Displays the C code for singly linked list deletion. The cursor is at line 13, column 13, where the condition for head deletion is being checked. The code uses standard C structures and functions like free() and printf().
- Compiler Log:** Shows compiler messages for line 25, column 52, indicating that 'malloc' was not declared in the current scope.
- Status Bar:** Shows the current file path as C:\Users\mada\OneDrive\Documents\Search an Item in..., the line number (25), column number (52), and the message "Done parsing in 0.016 seconds".

File Edit Window Help

(globals) TDM-GCC 4.9.2 64-bit Release

Project Classes Debug singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly linked li

```
1 #include <stdio.h>
2 struct Node {
3     int data;
4     struct Node* next;
5 };
6
7 void append(struct Node** head_ref, int new_data) {
8     struct Node* new_node = (struct Node*)malloc(sizeof(struct Node));
9     struct Node* last = *head_ref;
10    new_node->data = new_data;
11    new_node->next = NULL;
12    if (*head_ref == NULL) {
13        *head_ref = new_node;
14        return;
15    }
16    while (last->next != NULL) {
17        last = last->next;
18    }
19    last->next = new_node;
20}
21
22 void printList(struct Node* node) {
23     while (node != NULL) {
24         printf("%d ", node->data);
25         node = node->next;
26     }
27 }
28
29 struct Node* combineLists(struct Node* head1, struct Node* head2) {
30     struct Node* combinedList = NULL;
31     struct Node* tail = NULL;
32
33     while (head1 != NULL) {
34         append(&combinedList, head1->data);
35         head1 = head1->next;
36     }
37
38     while (head2 != NULL) {
39         append(&combinedList, head2->data);
40         head2 = head2->next;
41     }
42
43     return combinedList;
44 }
```

Compiler (2) Resources Compile Log Debug Find Results Close

Line Col File Message

C:\Users\mada\OneDrive\Documents\Search an Ite... In function 'int main()':  
25 52 C:\Users\mada\OneDrive\Documents\Search an Item in... [Error] 'malloc' was not declared in this scope

Lines: 1 Col: 19 Sel: 0 Lines: 70 Length: 1504 | Insert | Done parsing in 0.016 seconds

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TDM-GCC 4.9.2 64-bit Release

Project Classes Debug singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly linked list

combine two singly linked list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display..cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using linked list

C:\Users\mada\OneDrive\Documents\split doubly linked list into two.cpp

```
17     *firstHalf = head;
18     *secondHalf = slow->next;
19     slow->next->prev = NULL;
20     slow->next = NULL;
21 }
22
23 void printlist(struct Node* node) {
24     while (node != NULL) {
25         printf("%d ", node->data);
26         node = node->next;
27     }
28 }
29
30 int main() {
31     struct Node* head = NULL;
32     struct Node* firstHalf = NULL;
33     struct Node* secondHalf = NULL;
34
35     head = (struct Node*)malloc(sizeof(struct Node));
36     head->data = 1;
37     head->prev = NULL;
38     head->next = (struct Node*)malloc(sizeof(struct Node));
39     head->next->data = 2;
40     head->next->prev = head;
41     head->next->next = (struct Node*)malloc(sizeof(struct Node));
42     head->next->next->data = 3;
43     head->next->next->prev = head->next;
44     head->next->next->next = (struct Node*)malloc(sizeof(struct Node));
45     head->next->next->next->data = 4;
46     head->next->next->next->prev = head->next->next;
47     head->next->next->next->next = NULL;
48
49     printf("Original Linked List: ");
50     printlist(head);
51 }
```

Compiler (2) Resources Compile Log Debug Find Results Close

Line	Col	File	Message
25	52	C:\Users\mada\OneDrive\Documents\Search an Item in...	In function 'int main()': [Error] 'malloc' was not declared in this scope

Line: 1 Col: 19 Sel: 0 Lines: 62 Length: 1572 Insert Done parsing in 0.016 seconds

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TDM-GCC 4.9.2 64-bit Release

Project Classes Debug singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly linked list combine two singly linked list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display.cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using linked list C:\Users\mada\OneDrive\Documents\Create and stack with a size of 12 and insert 7 elements to display.cpp

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #define MAX_SIZE 12
4 struct {
5     int items[MAX_SIZE];
6     int top;
7 } Stack;
8
9 void push(Stack *stack, int value) {
10    if (stack->top < MAX_SIZE) {
11        stack->items[stack->top++] = value;
12    } else {
13        printf("Stack overflow\n");
14    }
15}
16
17 void display(Stack stack) {
18    if (stack.top == 0) {
19        printf("Stack is empty\n");
20        return;
21    }
22
23    printf("Stack elements: ");
24    for (int i = 0; i < stack.top; i++) {
25        printf("%d ", stack.items[i]);
26    }
27    printf("\n");
28}
29
30 int main() {
31     Stack stack;
32     stack.top = 0;
33
34     push(&stack, 10);
35     push(&stack, 20);
36 }
```

Compiler (2) Resources Compile Log Find Results Close

Line	Col	File	Message
25	52	C:\Users\mada\OneDrive\Documents\Search an Item in...	In function 'int main()': [Error] 'malloc' was not declared in this scope

Line: 15 Col: 2 Sel: 0 Lines: 46 Length: 838 Insert Done parsing in 0.016 seconds

C:\Users\mada\OneDrive\Documents\execute infix to postfix.cpp - Dev-C++ 5.11

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TDN-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly linked list combine two singly linked list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display.cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using linked list

C:\Users\mada\OneDrive\Documents\execute infix to postfix.cpp

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <ctype.h>
5 #define MAX 100
6 char stack[MAX];
7 int top = -1;
8
9 void push(char item) {
10    if (top == MAX - 1) {
11        printf("Stack Overflow\n");
12    } else {
13        top++;
14        stack[top] = item;
15    }
16}
17
18 char pop() {
19    char item;
20    if (top == -1) {
21        printf("Stack Underflow\n");
22        exit(1);
23    } else {
24        item = stack[top];
25        top--;
26        return item;
27    }
28}
29
30 int precedence(char symbol) {
31    if (symbol == '+') {
32        return 3;
33    } else if (symbol == '*' || symbol == '/') {
34        return 2;
35    } else if (symbol == '^' || symbol == '-') {
36        return 1;
37    }
38}
```

Compiler (2) Resources  Compile Log  Debug  Find Results  Close

Line Col File Message

C:\Users\mada\OneDrive\Documents\Search an Item... In function 'int main()':  
25 52 C:\Users\mada\OneDrive\Documents\Search an Item in... [Error]'malloc' was not declared in this scope

Line: 5 Col: 16 Sel: 0 Lines: 89 Length: 1814 Insert Done parsing in 0.016 seconds

C:\Users\mada\OneDrive\Documents\smallest element in stack.cpp - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

Project Classes Debug singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly linked li combine two singly linked list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display..cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using linked

C:\Users\mada\OneDrive\Documents\smallest element in s

```
4 typedef struct {
5     int items[MAX_SIZE];
6     int top;
7     int min;
8 } Stack;
9
10 void initStack(Stack *stack) {
11     stack->top = -1;
12     stack->min = INT_MAX;
13 }
14
15 int isEmpty(Stack *stack) {
16     return stack->top == -1;
17 }
18
19 int isFull(Stack *stack) {
20     return stack->top == MAX_SIZE - 1;
21 }
22
23 void push(Stack *stack, int value) {
24     if (isFull(stack)) {
25         printf("Stack Overflow\n");
26         return;
27     }
28
29     if (value < stack->min) {
30         stack->items[++stack->top] = 2 * value - stack->min;
31         stack->min = value;
32     } else {
33         stack->items[++stack->top] = value;
34     }
35 }
36
37 int pop(Stack *stack) {
38     if (isEmpty(stack)) {
39         printf("Stack Underflow\n");
40         return INT_MIN;
41     }
42     return stack->items[stack->top--];
43 }
```

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Line Col File Message

C:\Users\mada\OneDrive\Documents\Search an Item in... In function 'int main()':  
25 52 C:\Users\mada\OneDrive\Documents\Search an Item in... [Error] 'malloc' was not declared in this scope

Line: 3 Col: 21 Sel: 0 Lines: 75 Length: 1423 Insert Done parsing in 0.016 seconds

C:\Users\mada\OneDrive\Documents\implement stack using linked list.cpp - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug singly listed list.cpp Display doubly Linked List in Reverse.cpp Find size of a singly Linked List.cpp Search an Item in doubly Linked List.cpp Update an Item in singly Linked List.cpp remove an item from doubly linked combine two singly linked list.cpp split doubly linked list into two.cpp Create and stack with a size of 12 and insert 7 elements to display..cpp execute infix to postfix.cpp smallest element in stack.cpp implement stack using linked

C:\Users\mada\OneDrive\Documents\implement stack using linked

```
1 #include <stdio.h>
2 struct Node {
3     int data;
4     struct Node* next;
5 };
6
7 struct Node* top = NULL;
8
9 void push(int value) {
10     struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
11     newNode->data = value;
12     newNode->next = top;
13     top = newNode;
14 }
15
16 void display() {
17     struct Node* temp = top;
18     while (temp != NULL) {
19         printf("%d\n", temp->data);
20         temp = temp->next;
21     }
22 }
23
24 int main() {
25     push(1);
26     push(2);
27     push(3);
28     push(4);
29
30     printf("Stack elements:\n");
31     display();
32
33     return 0;
34 }
35
```

Compiler (2) Resources Compile Log Debug Find Results Close

Line Col File Message

C:\Users\mada\OneDrive\Documents\Search an Item... In function 'int main()':  
25 52 C:\Users\mada\OneDrive\Documents\Search an Item in... [Error] 'malloc' was not declared in this scope

Line: 2 Col: 1 Sel: 0 Lines: 35 Length: 579 Insert Done parsing in 0.016 seconds