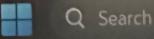
Programiz

C Online Compiler

```
main.c
             #include<stdio.h>
          2 #include<stdlib.h>
          3 typedef struct node
          4
            {
          5
                 int data:
 5
          6
                 struct node * next;
          7
            }
          8
             node:
 墾
            void insertnode(node** head, int data)
         10 - {
 0
                 node * newnode = (node*)malloc(sizeof(node));
         1162
        12
                 newnode->data = data:
 •
                 newnode->next = *head;
        13
                 *head = newnode;
        14
        15
•
            void printlist(node * head)
        16
        17 - {
                while(head)
 JS
        18
        19 -
        20
                    printf("%d",head->data);
*GO
        21
                    head = head->next:
        22
        23
                printf("\n");
        24
            int main()
       25
       26 - {
B
                node* head = NULL;
       27
                insertnode(&head, 1);
       28
                insertnode(&head, 2);
       29
                insertnode(&head, 3);
       30
                printlist(head);
       31
                return 0;
       32
       33
           }
```







```
& Share
        main.c
R
            typedef struct Node {
=
                int data;
                struct Node* next;
                struct Node* prev;
9
           } Node;
           void insertNode(Node** head, Node** tail, int data) {
重
        9
                Node* newNode = (Node*) malloc(sizeof(Node));
        10
               newNode->data = data;
                if (*head == NULL) {
       11
0
       12
                    *head = newNode;
                    *tail = newNode;
       13
       14
               } else
       15
               {
0
       16
                    (*tail)->next = newNode;
       17
                   newNode->prev = *tail;
       18
                   *tail = newNode;
JS
       19
       20
           }
           void printListForward(Node* head)
       21
       22 - {
               while (head)
       23
               {
       24 -
                   printf("%d ", head->data);
      25
                   head = head->next;
      26
      27
              printf("\n");
      28
      29
         3
      30 - int main() {
              Node* head = NULL;
      31
      32
              Node* tail = NULL;
              insertNode(&head, '&tail, 1);
      33
              insertNode(&head, &tail, 2);
      34
              insertNode(&head, &tail, 3);
     35
              printListForward(head);
     36
              return 0;
     37
     22

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                                                                                    Q Search
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```



```
P
                  struct Node* next;
   5
           7 }
             Node;
          8
             void insertNode(Node** head, int data)
         10 - {
                 Node* newNode = (Node*) malloc(sizeof(Node));
         11
         12
                 newNode->data = data;
         13
                 if (*head == NULL)
 0
         14
                 1
         15
                     *head = newNode;
 0
         16
                     newNode->next = *head;
         17
                 }
        18
                 else
 JS
        19
                 1
        20
                     Node* temp = *head;
        21
                    while (temp->next != *head)
        22
                    1
        23
                        temp = temp->next;
        24
        25
                    temp->next = newNode;
       26
                    newNode->next = *head;
       27
•
       28
       29
          void printList(Node* head)
       30 - {
      31
               Node* temp = head;
      32
      33 -
               {
      34
                   printf("%d ", temp->data);
      35
                   temp = temp->next;
      36
      37
              while (temp != head);
     38
              printf("\n");
     39
     40
         int main()
     41
     42
             Node* head = NULL;
    43
             insertNode(&head, 1);
    44
             insertNode(&head, 2);
    45
             insertNode(&head, 3);
             printList(head);
    46
    47
             return 0;
```

