Munitified - Notepad

Using singly linked list create 2 list and concatenate two lists and reverse the list

Ln 9, Col 1 100% Windows (CRLF) UTF-8

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onlinegdb.com/online_c_compiler#
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► Run O Debug Stop C Share H Save {} Beautify
                                                                                                                                                   Language C
main.c
   #include<stdio.h>
#include<stdlib.h>
struct node
             int info;
struct node *link;
  typedef struct node *NODE;
NODE getnode()
for the struct node *NODE;
NODE getnode()
NODE x;
             NODE x;
x=(NODE)malloc(sizeof(struct node));
if(x==NULL)
{
  13
14
                  printf("Memory full\n");
exit(0);
             }
return x;
  19
20 }
  21
22 void freenode(NODE x)
23 - {
              free(x);
  26 void display (NODE first)
lab_program_6.pdf
```

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O a onlinegdb.com/online_c_compiler#
Language C
main.c
  25
  26 void display (NODE first)
 27 - {
          NODE temp;
if(first==NULL)
{
              printf("Linked List is empty ,Cannot Display items");
return;
          printf("The contents of the linked list are: \n");
for(temp=first;temp!=NULL;temp=temp->link)
              printf("%d\n",temp->info);
     }
NODE insert_rear(int item,NODE first)
 42 - {
          NODE temp, cur;
          temp=getnode();
          temp->info=item;
temp->link=NULL;
          if(first==NULL)
               return temp;
lab_program_6.pdf
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> C
        onlinegdb.com/online_c_compiler#
                                                                                                                                            🐞 🗗 🗯 🕕 :
Language C
main.c
           temp->link=NULL;
if(first==NULL)
{
 46
                return temp;
           cur=first;
while(cur->link!=NULL)
  52
53
54
                cur=cur->link;
  56
57
58
59
           cur->link=temp;
           return first;
      }
  60 NODE concat(NODE first,NODE second)
           NODE cur;
if(first==NULL)
return second;
if(second==NULL)
return first;
           cur=first;
while(cur->link!=NULL)
                cur=cur->link;
           cur->link=second;
           return first;
                                                                                                                                                   Show all
lab_program_6.pdf
```

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O a onlinegdb.com/online_c_compiler#
v 6 0
                                                                                                                  Language C
main.c
  60 NODE concat(NODE first,NODE second)
  61 - {
          NODE cur;
          if(first==NULL)
return second;
if(second==NULL)
return first;
          cur=first;
while(cur->link!=NULL)
             cur=cur->link;
          cur->link=second;
          return first;
     }
     NODE reverse(NODE first)
 75 - {
76
77
          NODE cur, temp;
          cur=NULL;
  78
79
          while(first!=NULL)
              temp=first;
              first=first->link;
temp->link=cur;
cur=temp;
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lab_program_6.pdf
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          onlinegdb.com/online_c_compiler#
► Run O Debug Stop C Share H Save {} Beautify
                                                                                                                                                            Language C
                return cur;
         }
         int main()
          {
               NODE first=NULL;
NODE second=NULL;
int item, choice,llno;
                for(;;)
                     printf("1:insert rear\n2:Concatenate the two linked lists\n3:reverse the linked list\n4:Display\n5:EXIT\n");
printf("Enter your choice: ");
scanf("%d", %choice);
switch(choice)
                                              of("Enter the LL number (1 or 2) :");
("%d",&llno);
                                       printf("Enter the item at the rear end: ");
scanf("%d",&item);
if(llno==1)
    first=insert_rear(item,first);
                                            second=insert_rear(item, second);
   108
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lab_program_6.pdf
```

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> C
       onlinegdb.com/online_c_compiler#
Language C
main.c
  105
                             first=insert_rear(item,first);
                             second=insert_rear(item, second);
                         break;
                  case 2: first=concat(first, second);
                         break;
printf("Enter the LL number (1 or 2) :");
scanf("%d",&llno);
if(llno==1)
                  case 3:
                             first=reverse(first);
                         display(second);
                  break;
case 5: exit(0);
    break;
default: printf("Enter a valid option\n");
          }
return 0;
                                                                                                                          Show all
lab_program_6.pdf
```





