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# LINE EDITOR

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
typedef struct node
 char line[80];
struct node* next;
}node;
char fname[20];
FILE* fp;
int cnt,c;
node *first,*last,*first1,*last1;
void create()
{
 char str[80];
 node* temp;
 while(!feof(fp))
      fgets(str,80,fp);
      temp=(node*)malloc(sizeof(node));
      strcpy(temp->line,str);
      temp->next=NULL;
      if(first==NULL);
         first= temp;
      else
         last->next=temp;
      last=temp;
      cnt++;
}
```



```
void createnew()
char str[80];
node* temp;
printf("Enter text (. to stop)\n");
gets(str);
while(strcmp(str,".")!=0)
       temp=(node*)malloc(sizeof(node));
       strcpy(temp->line,str);
       temp->next=NULL;
       if(first==NULL)
           first = temp;
       else
           last->next = temp;
       last = temp;
       cnt++;
       gets(str);
}
void save()
node* p;
fp=fopen(fname, "w");
p=first;
while(p!=NULL)
       fputs(p->line,fp);
       p=p->next;
printf("%s saved successfully...\n",fname);
fclose(fp);
```



```
void disppattern(char *str)
node* p;
 int i=1;
 p=first;
while(p!=NULL)
       if(strstr(p->line,str))
          printf("%d: %s",i,p->line);
       p=p->next;
       i++;
}
node* findnode(int pos)
node* p;
 int i=1;
 p=first;
 while(p!=NULL && i<pos)</pre>
       p=p->next;
       i++;
 return p;
void printnodes(int m, int n)
node* p;
 int i=0;
p=findnode(m);
 while(p!=NULL && i<=n-m)</pre>
       printf("%d: %s",i+m,p->line);
       i++;
       p=p->next;
printf("\n");
```



```
void insertnodes(int no)
node *temp,*p;
char str[80];
first1=last1=NULL;
c=0;
printf("Enter text (. to stop)\n");
gets(str);
while(strcmp(str,".")!=0)
       temp = (node*)malloc(sizeof(node));
       strcpy(temp->line,str);
       temp->next=NULL;
       if(first1==NULL)
         first1 = temp;
       else
         last1->next = temp;
       last1 = temp;
       C++;
       gets(str);
if(no==1)
    last1->next=first;
   first=first1;
else
   {
    p=findnode(no-1);
    last1->next=p->next;
    p->next=first1;
cnt+=c;
```



```
void copynodes(int x,int y)
node *p,*temp;
 c=0;
 first1=last1=NULL;
 p=findnode(x);
while(p!=NULL && y>=x)
        temp=(node*)malloc(sizeof(node));
        strcpy(temp->line,p->line);
        temp->next=NULL;
        if(first1==NULL)
           first1=temp;
        else
           last1->next=temp;
        last1=temp;
        p=p->next;
        y--;
        C++;
      }
}
void pastenodes(int z)
 node* p;
 p=findnode(z-1);
 last1->next=p->next;
 p->next=first1;
 cnt+=c;
```



```
void deletenodes(int m, int n)
 node *temp,*p;
 if(m==1)
    while(n>0)
           temp=first;
           first=temp->next;
           temp->next=NULL;
           free(temp);
           cnt--;
           n--;
   }
 else
     p=findnode(m-1);
     while(n>=m)
              temp=p->next;
              p->next=temp->next;
              temp->next=NULL;
              free(temp);
              cnt--;
              n--;
    }
}
void movenodes(int x,int y,int z)
copynodes(x,y);
 pastenodes(z);
deletenodes(x,y);
```



```
void main(int argc, char* argv[])
 char cmd[20],tok1[5],tok2[5],tok3[5],tok4[5];
 int n,t2,t3,t4;
 strcpy(fname, argv[1]);
 fp=fopen(fname, "r");
 if(fp==NULL)
    printf("File doesn't exist\n");
    createnew();
    printf("\nNumer of lines is %d",cnt);
 else
    printf("\nFile exist");
    create();
    printf("\nNumer of lines is %d",cnt);
    fclose(fp);
while(1)
       strcpy(tok2,"\0");
       strcpy(tok3,"\0");
       strcpy(tok4,"\0");
       printf("\n\n$ ");
       gets(cmd);
       n=sscanf(cmd, "%s %s %s %s", tok1, tok2, tok3, tok4);
       t2=atoi(tok2);
       t3=atoi(tok3);
       t4=atoi(tok4);
```



}

## www.nsgacademy.in

```
switch(tok1[0])
       case 'a': createnew();
                  break;
       case 'p': if(t2==0 && t3==0)
                     printnodes(1,cnt);
                     printnodes(t2,t3);
                  break;
       case 's': save();
                  break;
       case 'i': insertnodes(t2);
                  break;
       case 'd': if(t3==0)
                     deletenodes(t2,t2);
                  else
                     deletenodes(t2,t3);
                  break;
       case 'c': if(t4==0)
                      copynodes(t2,t2);
                      pastenodes(t3);
                  else
                      copynodes(t2,t3);
                      pastenodes(t4);
                  break;
       case 'm': if(t4==0)
                     movenodes(t2,t2,t3);
                     movenodes(t2,t3,t4);
                  break;
       case 'f': disppattern(tok2);
                  break;
       case 'q': save();
                  exit(0);
       default : printf("\nInvalid choice");
}
```