/*link list concatination*/

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#include<stdio.h>
#include<stdlib.h>
struct node
{
        int info;
        struct node *link;
};
struct node *create_list(struct node *);
struct node *concat( struct node *start1,struct node *start2);
struct node *addatbeg(struct node *start, int data);
struct node *addatend(struct node *start,int data);
void display(struct node *start);
int main()
{
        struct node *start1=NULL,*start2=NULL;
        start1=create_list(start1);
        start2=create_list(start2);
        printf("First list is : ");
        display(start1);
        printf("Second list is : ");
        display(start2);
  start1=concat(start1, start2);
        printf("Concatenated list is : ");
        display(start1);
}/*End of main()*/
struct node *concat( struct node *start1,struct node *start2)
{
```

```
struct node *ptr;
        if(start1==NULL)
        {
                start1=start2;
                return start1;
        }
        if(start2==NULL)
                return start1;
        ptr=start1;
        while(ptr->link!=NULL)
                ptr=ptr->link;
        ptr->link=start2;
        return start1;
}
struct node *create_list(struct node *start)
{
        int i,n,data;
        printf("Enter the number of nodes : ");
        scanf("%d",&n);
        start=NULL;
        if(n==0)
                return start;
        printf("Enter the element to be inserted : ");
        scanf("%d",&data);
        start=addatbeg(start,data);
        for(i=2;i<=n;i++)
        {
                printf("Enter the element to be inserted : ");
                scanf("%d",&data);
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start=addatend(start,data);
        }
        return start;
}/*End of create_list()*/
void display(struct node *start)
{
        struct node *p;
        if(start==NULL)
        {
                printf("List is empty\n");
                return;
        }
        p=start;
        while(p!=NULL)
        {
                printf("%d ", p->info);
                p=p->link;
        }
        printf("\n");
}/*End of display() */
struct node *addatbeg(struct node *start,int data)
{
        struct node *tmp;
        tmp=(struct node *)malloc(sizeof(struct node));
        tmp->info=data;
        tmp->link=start;
        start=tmp;
        return start;
}/*End of addatbeg()*/
```

}/*End of addatend()*/

