REVERSE

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Program to Reverse a Linked List ****/
            /***
#include <stdio.h>
void insert last();
void reverse();
void display();
struct node
{
     int info;
     struct node *link;
} *start=NULL;
int item;
main()
      int ch;
      do
      {
          printf("\n\n1. Insert Last\n2. Reverse\n3. Display\n
                                                         4. Exit\n");
          printf("\nEnter your choice: ");
          scanf("%d", &ch);
          switch (ch)
               case 1:
                    insert last();
                    break;
               case 2:
                    reverse();
                    break;
               case 3:
                    display();
                    break;
               case 4:
                    exit(0);
```

```
default:
                    printf("\n\nInvalid choice: Please try again.\n");
      } while (1);
}
void insert last()
     struct node *ptr;
     printf("\n\nEnter item: ");
     scanf("%d", &item);
     if (start == NULL)
          start = (struct node *)malloc(sizeof(struct node));
          start->info = item;
          start->link = NULL;
     else
     {
          ptr = start;
          while (ptr->link != NULL)
                ptr = ptr->link;
          ptr->link = (struct node *)malloc(sizeof(struct node));
          ptr = ptr->link;
          ptr->info = item;
          ptr->link = NULL;
     }
     printf("\nItem inserted: %d\n", item);
}
void reverse()
{
     struct node *ptr = start, *prev = NULL, *rev;
     while (ptr != NULL)
     {
           rev = prev;
           prev = ptr;
           ptr = ptr->link;
           prev->link = rev;
     }
```

```
start = prev;
     printf("\n\nReversed Linked is:\n\n");
     display();
}
void display()
     struct node *ptr = start;
     int i=1;
     if (ptr == NULL)
          printf("\nLinklist is empty.\n");
     else
     {
          printf("\nSr. No.\t\tAddress\t\tInfo\t\tLink\n");
          while(ptr != NULL)
               printf("\n%d.\t\t%d\t\t%d\n", i, ptr, ptr->info,
                                                             ptr->link);
               ptr = ptr->link;
               i++;
     }
}
```