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DS - LAB-TEST -2

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1)

```
#include <stdio.h>
#include <stdlib.h>

struct Node {
    int data;
    struct Node * next;
};

void rot ( struct Node **head , int t ) {
    if( t == 0)
        return;

    struct Node *curr = *head;
    int count = 1;
    while ( count < t && curr != NULL) {
        curr = curr -> next;
        count ++;
    }

    if ( curr == NULL)
        return;

    struct Node * nNode = curr;

    while ( curr -> next != NULL)
        curr = curr -> next;
```

```
curr -> next = *head;

*head = nNode -> next;

nNode -> next = NULL;
```

```
void push( struct Node **head, int udata) {

    struct Node * newnode = (struct node *)
                            malloc(sizeof(struct Node

    newnode -> data = udata;

    newnode -> next = (*head);

    (*head) = newnode;

}
void display( struct Node * node) {

    while ( node != NULL) {

        printf(" %d ", node -> data);

        node = node -> next;

    }

}

int data_test_2 {

    struct Node * nhead = NULL
```

```
int main(void) {
    struct Node * uhead = NULL;
    int d, no;
    printf("\n Number of entries you want : ");
    scanf("%d", &no);
    for(int i = no; i > 0; i--) {
        printf("Enter element %d in the list:");
        scanf("%d", &d);
        push(&uhead, d);
    }
    printf("\n\t *** Linked list ***\n");
    display(uhead);
    rot(&uhead, 3);
    printf("\n\t *** After Rotating *** \n");
    display(uhead);
    return(0);
}
```