

# Count and Sum Linked List

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

struct Node
{
    int data;
    struct Node *next;
}*first=NULL;

void create(int A[],int n)
{
    int i;
    struct Node *t,*last;
    first=(struct Node *)malloc(sizeof(struct Node));
    first->data=A[0];
    first->next=NULL;
    last=first;

    for(i=1;i<n;i++)
    {
        t=(struct Node*)malloc(sizeof(struct Node));
        t->data=A[i];
        t->next=NULL;
        last->next=t;
        last=t;
    }
}

int count(struct Node *p)
{
    int l=0;
    while(p)
    {
        l++;
        p=p->next;
    }
    return l;
}

int Rcount(struct Node *p)
{
    if(p!=NULL)
        return Rcount(p->next)+1;
    else
        return 0;
}
```

```

}
int sum(struct Node *p)
{
    int s=0;

    while(p!=NULL)
    {
        s+=p->data;
        p=p->next;
    }
    return s;
}

int Rsum(struct Node *p)
{
    if(p==NULL)
        return 0;
    else
        return Rsum(p->next)+p->data;
}

int main()
{

    int A[]={3,5,7,10,25,8,32,2};
    create(A,8);

    printf("Count %d\n",count(first));
    printf("Sum %d\n",sum(first);

    return 0;
}

```