

program 1:

Write C Program to create Singly Linked List with n elements and reverse the elements using C.

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

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

```
struct node
```

```
{
```

```
int data;
```

```
struct node next;
```

```
};
```

```
struct Node reverse(struct Node head,int k)
```

```
{
```

```
struct Node current= head;
```

```
struct Node next= Null;
```

```
struct Node prev= Null;
```

```
int count = 0;
```

```
while(current!=Null && count<k)
```

```
{
```

```
next= current->next;
```

```
current->next = prev;
```

```
prev= current;
```

```
current= next;
```

```
count++;
```

```
}
```

```
if ( next!=Null)
```

```
head->next= reverse( next,k);
```

```
return prev;
```

```
}
```

```
void push( struct Node ==head_ref,int new_data)
```

```
{
```

```
struct Node= new_node= (struct Node) malloc(sizeof(struct Node));
```

```
}
```

```
}
```

```
int main()
```

```

{
Struct node *prev,*head,*p;
int n,i;
printf ("number of elements:");
scanf("%d",&n);
head=NULL;
for(i=0;i<n;i++)
{
p=malloc(sizeof(struct node));
scanf("%d",&p->data);
p->next=NULL;
if(head==NULL)
head=p;
else
prev->next=p;
prev=p;
}
return 0;
}

```

program 2:

Python program in number right angled triangle

Enter number 5

```

5 4 3 2 1
4 3 2 1
3 2 1
2 1
1

```

```

rows = int(input("enter number of rows "))
for i in range(0, rows + 1):
for j in range(rows - i, 0, -1):
print(j, end=' ')
print()

```