```
#include<stdio.h>
#include<stdlib.h>
void display_list(int* arr, int n)
    int i;
    printf("[");
    for(i=0;i<n;i++)</pre>
        printf("%d , ",*(arr+i));
    printf("]\n");
}
void Quick_Sort(int* arr, int L, int H, int n)
    int low,high,pivot,temp;
    pivot = *(arr+L);
    low = L+1;
    high = H;
    while(low <= high)</pre>
        while(*(arr+low) < pivot)</pre>
        {
             low++;
        while(*(arr+high) > pivot)
             high--;
        }
        if(low <= high)</pre>
             temp = *(arr+low);
             *(arr+low) = *(arr+high);
             *(arr+high) = temp;
             low++;
            high--;
        }
    temp = *(arr+L);
    *(arr+L) = *(arr+high);
    *(arr+high) = temp;
    if(L < high)</pre>
        Quick_Sort(arr, L, high-1,n);
    if(H > low)
        Quick_Sort(arr,high+1,H,n);
    }
}
void main()
    int* arr , i, n;
    printf("Enter how many elements do you want to enter: ");
    scanf("%d",&n);
    arr =(int*)malloc(sizeof(int)*n);
    printf("Enter array Elements: \n");
    for(i=0;i<n;i++)</pre>
    {
        scanf("%d",arr+i);
    }
```

## File: /home/mahesh/TECHNORBIT/DATA STRUCTURE/Sorting/Quick\_Sortinger 2 of 2

```
printf("Unsorted List is: ");
  display_list(arr,n);
  Quick_Sort(arr,0,n-1,n);
  printf("Sorted List is: ");
  display_list(arr,n);
}
```