/*quick sort*/

```
#include<stdio.h>
void quick_sort(int arr[],int low,int high);
int partition(int arr[],int low,int high);
int main(){
        int n,i;
        printf("enter the array size:\n");
        scanf("%d",&n);
        int arr[n];
        printf("enter the array elements\n");
        for(i=1;i<=n;i++){
                 scanf("%d",&arr[i]);
        }
        quick_sort(arr,1,n);
        printf("after sorting the array\n");
 for(i=1;i<=n;i++){
        printf("%d\n",arr[i]);
 }
}
void quick_sort(int arr[],int low,int high)
{
  if(low<high){ //must have 2 elements ,if low<=high,so if there is 1 element in array it will run for
once but no need of that as 1 element then what is the need to sort
     int q=partition(arr,low,high);
     quick_sort(arr,low,high-1);
    quick_sort(arr,low+1,high);
  }
}
int partition(int arr[],int low,int high){
        int i,j;
        int pivot=arr[high];
```

