```
# include <iostream>
using namespace std;
// quick sort sorting algorithm
int Partition(int arr[], int s, int e)
 int pivot = arr[e];
 int pIndex = s;
 for(int i = s; i < e; i++)
 if(arr[i]<pivot)</pre>
 int temp = arr[i];
 arr[i] = arr[pIndex];
 arr[pIndex] = temp;
 pIndex++;
 }
 int temp = arr[e];
 arr[e] = arr[pIndex];
 arr[pIndex] = temp;
 return pIndex;
void QuickSort(int arr[], int s, int e)
if(s<e)
 int p = Partition(arr,s, e);
 QuickSort(arr, s, (p-1)); // recursive QS call for left partition
 QuickSort(arr, (p+1), e); // recursive QS call for right partition
}
int main()
 int size=0;
 cout<<"Enter Size of array: "<<endl;</pre>
 cin>>size;
 int myarray[size];
 cout<<"Enter "<<size<<" integers in any order: "<<endl;</pre>
 for(int i=0;i<size;i++)</pre>
 cin>>myarray[i];
 cout<<"Before Sorting"<<endl;</pre>
 for(int i=0;i<size;i++)</pre>
```

QUICK SORT:

```
{
cout<<myarray[i]<<" ";
}
cout<<endl;

QuickSort(myarray,0,(size-1)); // quick sort called

cout<<"After Sorting"<<endl;
for(int i=0;i<size;i++)
{
  cout<<myarray[i]<<" ";
}

return 0;
}</pre>
```