Quick Sort

#include<iostream>

using namespace std;

int part(int arr[],int st,int end)

{

int pivot=arr[end];

int i=st-1;

for(int j=st;j<end;j++)

{

if (arr[j]<=pivot){

i++;

int temp=arr[i];

arr[i]=arr[j];

arr[j]=temp;

}

}

int temp=arr[i+1];

arr[i+1] = arr[end];

arr[end] = temp;

return (i + 1);

}

void quick(int arr[],int st,int end)

{

if (st < end)

{

int p = part(arr, st, end);

quick(arr, st, p - 1);

quick(arr, p + 1, end);

}

}

void printArr(int arr[],int n)

{

for(int i=0;i<n;i++)

{

cout<<arr[i];

}

}

int main()

{

int arr[]={2,11,5,8,10,1,6};

int n;

n=sizeof(arr) / sizeof(arr[0]);

cout<<"array before sort";

printArr(arr, n);

quick(arr, 0, n - 1);

cout<<"\nAfter sorting array elements are - \n";

printArr(arr, n);

return 0;

}