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#include<stdio.h>

int partition(int arr[],int low,int high)
{
    int temp;
    int pivot=arr[low];
    int i=low;
    int j=high;

    while(i<j)
    {
        while(arr[i]<=pivot)
        {
            i++;
        }
        while(arr[j]>pivot)
        {
            j--;
        }
        if(i<j)
        {
            temp=arr[i];
            arr[i]=arr[j];
            arr[j]=temp;
        }
    }
    temp=arr[low];
    arr[low]=arr[j];
    arr[j]=temp;

    return j;
}

void quick_sort(int arr[], int low, int high)
{
    if(low<high)
    {
        int pi=partition(arr, low, high);

        quick_sort(arr, low, pi-1);
        quick_sort(arr, pi+1, high);
    }
}

int main()
{
    int arr[]={10,7,8,9,1,5};
    int n=sizeof(arr)/sizeof(arr[0]);

    quick_sort(arr,0,n-1);

    int i;
    for(i=0;i<n;i++)
    {
        printf("%d ",arr[i]);
    }
}

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} return 0;
```