```
#include <stdio.h>



void swap(int *x, int *y)
{
    int t = *x;
    *x = *y;
    *y = t;
}



int partition(int arr[], int left, int right)
{
    int pivot = arr[right];
    int pIndex = left;

    for (int i = left; i < right; i++)
    {
        if (arr[i] < pivot)
            swap(&arr[i], &arr[pIndex++]);
    }
    swap(&arr[pIndex], &arr[right]);

    return pIndex;
}
```

```
void quickSort(int arr[], int left, int right)
{
    if (left >= right)
        return;

    int pIndex = partition(arr, left, right);
    quickSort(arr, left, pIndex - 1);
    quickSort(arr, pIndex + 1, right);
}

int main()
{
    int arr[100], size;
    printf("\nEnter size ");
    scanf("%d", &size);
    printf("\nEnter array ");
    for (int i = 0; i < size; i++)
        scanf("%d", &arr[i]);

    quickSort(arr, 0, size - 1);
    printf("Qsort is = \n");
    for (int i = 0; i < size; i++)
        printf("%d ", arr[i]);

    return 0;
}
```

```
Enter array 56
34
23
89
67
223
90
45
Qsort is =
23 34 45 56 67 89 90 223
```