```
#include <stdio.h>
int partition(int a[], int low, int high) {
  int pivot = a[low], i = low + 1, j = high, temp;
  while (i \le j) {
    while (i <= high && a[i] <= pivot) i++;
     while (a[j] > pivot) j--;
     if (i < j) {
       temp = a[i];
       a[i] = a[j];
       a[j] = temp;
    }
  }
  a[low] = a[j];
  a[j] = pivot;
  return j;
}
void quickSort(int a[], int low, int high) {
  if (low < high) {
     int pi = partition(a, low, high);
     quickSort(a, low, pi - 1);
     quickSort(a, pi + 1, high);
  }
}
int main() {
  int a[100], n, i;
  printf("Enter number of elements: ");
  scanf("%d", &n);
  printf("Enter elements:\n");
  for(i = 0; i < n; i++)
      scanf("%d", &a[i]);
```

```
Enter number of elements: 5
Enter elements:
21 54 32 87 98
Sorted array:
21 32 54 87 98
```

```
quickSort(a, 0, n - 1);
printf("Sorted array:\n");
for(i = 0; i < n; i++)
    printf("%d ", a[i]);
return 0;
}</pre>
```