```c
#include <stdio.h>

// Function to perform QuickSort
void quick_sort(int a[], int low, int high)
{
    int i,j,p,temp;
 if (low < high)
  {
        p=low;
        i=low;
        j=high;

        while(i<j)
        {
         while((a[i]<=a[p]) && (i<high))
         i++;
         while(a[j]>a[p])
         j--;

         if(i<j)
         {
          temp=a[i];
          a[i]=a[j];
          a[j]=temp;
    }
        }
        temp=a[p];
        a[p]=a[j];
        a[j]=temp;

        // Recursively sort the sub-aays
        quick_sort(a, low, j - 1);
        quick_sort(a, j + 1, high);
    }
}

// Example usage
int main()
{
    int a[10],n,i;
    printf("\nEnter size of array:");
    scanf("%d",&n);
    printf("\nEnter elements into array:");
    for(i=0;i<n;i++)
     scanf("%d",&a[i]);
    quick_sort(a,0,n-1);

    printf("\nSorted array: ");
    for (i = 0; i < n; i++)
 {
        printf("%d ", a[i]);
    }

    return 0;
}
```