

```

#include<stdio.h>

void quicksort(int a[25],int first,int last)
{
    int i, j, pivot, temp;
    if(first<last){
        pivot=first;
        i=first;
        j=last;
        while(i<j){
            while(a[i]<=a[pivot] && i<last)
                i++;
            while(a[j]>a[pivot])
                j--;
            if(i<j){
                temp=a[i];
                a[i]=a[j];
                a[j]=temp;
            }
        }
        temp=a[pivot];
        a[pivot]=a[j];
        a[j]=temp;
        quicksort(a,first,j-1);
        quicksort(a,j+1,last);
    }
}

int main()
{
    int i, n, a[25];

```

```
printf("Enter total no.of elements: ");
```

```
scanf("%d",&n);
```

```
printf("Enter the elements: ");
```

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

```
scanf("%d",&a[i]);
```

```
quicksort(a,0,n-1);
```

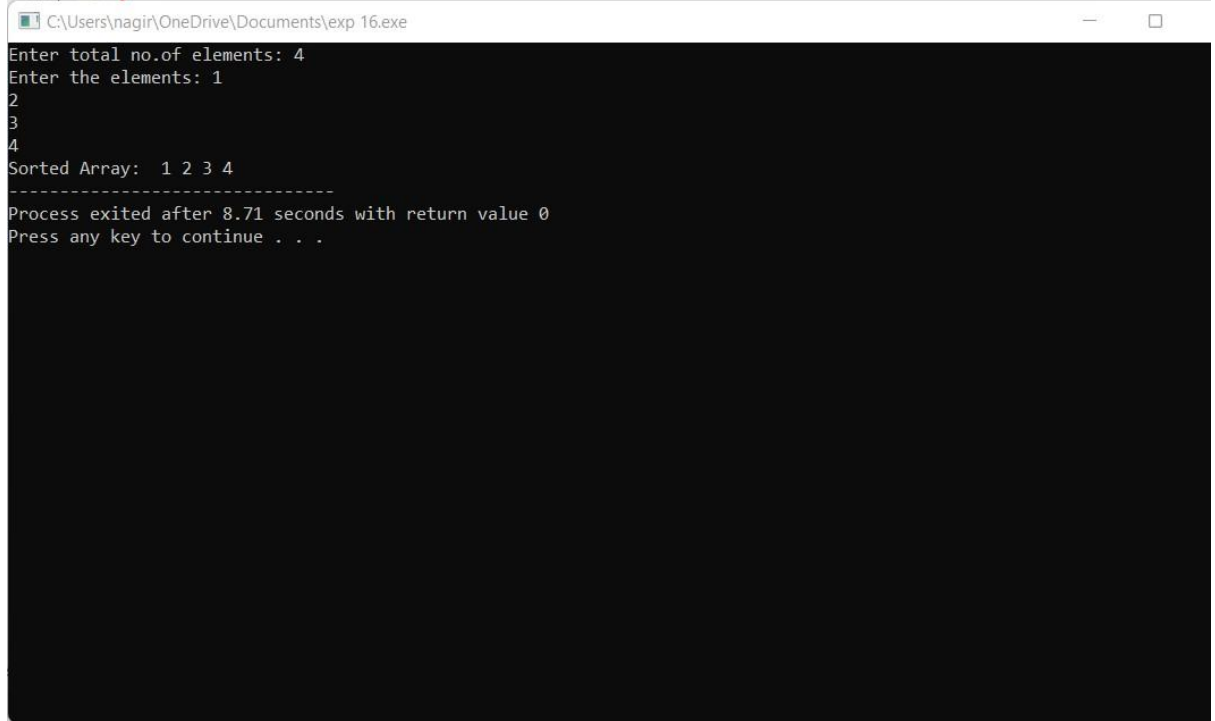
```
printf("Sorted Array: ");
```

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

```
printf(" %d",a[i]);
```

```
return 0;
```

```
}
```



```
C:\Users\nagin\OneDrive\Documents\exp 16.exe
Enter total no.of elements: 4
Enter the elements: 1
2
3
4
Sorted Array:  1 2 3 4
-----
Process exited after 8.71 seconds with return value 0
Press any key to continue . . .
```