

```
# include <stdio.h>
```

```
int main()
```

```
{
```

```
int max, min, pos maxpos, minpos, i, temp, n;
```

```
printf("Enter the number of elements in the array:\n");
```

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

```
int a[n];
```

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

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

```
{
```

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

```
}
```

```
max = a[0]; min = a[0];
```

```
maxpos = 0; minpos = 0;
```

```
for (i=1; i<n; i++)
```

```
{
```

```
if (a[i] > max)
```

```
{
```

```
max = a[i]; maxpos = i;
```

```
}
```

```
if (a[i] < min) {
```

```
min = a[i]; minpos = i;
```

```
}
```

```
}
```

```
printf("Largest and smallest numbers are: %d and %d\n", max, min);
```

```
temp = a[maxpos];
```

```
a[maxpos] = a[minpos];
```

```
a[minpos] = temp;
```

```
printf("The array after interchange\n");
```

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

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

```
return 0;
```

```
}
```