

$O(n^2)$

Selection Sort (given array)

```
for j = 0; j < n-1; j++
```

```
    int iMin = j;
```

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

```
        if (a[i] < a[iMin])
```

```
            iMin = i;
```

```
    if (iMin != j)
```

```
        swap(a[j], a[iMin]);
```