1. Selection Sort

Algorithm

```
list: array of items
n: size of list

for i = 1 to n - 1
{
    /* set current element as minimum*/
    min = i

    /* check the element to be minimum */
    for j = i+1 to n
    {
        if list[j] < list[min] then
            min = j;
    }

    /* swap the minimum element with the current element*/
    if min != i then
        swap list[min] and list[i]
}</pre>
```

Time Complexity: $O(n^2)$

2. Bubble Sort

```
list: array of items
n: size of list

for i = 0 to n-1 do:
{
    swapped = false

    for j = 0 to n-1 do:
    {
        /* compare the adjacent elements */
        if list[j] > list[j+1] then
            swap( list[j], list[j+1] )
            swapped = true
    }

/*if no number was swapped that means array is sorted now, break the loop.*/
    if(not swapped) then
        break
}
```

Time Complexity: O(n²)

3. Insertion Sort

```
int i, key, j;
```

Time Complexity: O(n²)