* Sorting Algorithm

- bubble
- selection
- insertion

* built-in JS sort method

```
arr.sort((n1,n2)=>{
    return n1-n2
});
```

callback func

n1 - n2 > 0 → n2, n1 바꿔줘

n1 - n2 < 0 → n1, n2 유지해

* Bubble sort O(N²)

⇒ largest value pops to top. ⇒ 바로옆에 큰 값들이 뒤에 생성.

ex) [5, 3, 4, 1, 2]

[3, 5, 4, 1, 2]

[3, 4, 5, 1, 2]

[3, 4, 1, 5, 2]

[3, 4, 1, 2, 5] sorted.

```
function swap(arr, idx1, idx2){
    var temp = arr[idx1];
    arr[idx1] = arr[idx2];
    arr[idx2] = temp;
}
```

* In nearly sorted. O(N)

```
let noSwap = true
   ⋮
if(noSwap) break;
```