Selection Sort:

* one kind of opposite of bubble sort
* Imagine a array into two parts
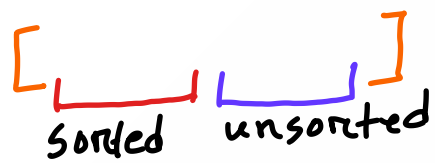
[__sorted__ | __unsorted__] → we have to pick

The smallest element in unsorted part and placed it into the sorted part

* (n-1) iterations → (n-1) smallest element we have to push

Example:

assume smallest when i=0;

[4, 1, 5, 2, 3] →

assume as Unsorted and Find the smallest element and swap in zero index

i=1

1, 4, 5, 2, 3 →
sorted | unsorted

*Find the smallest element and swap in 1st index

i=3

1, 2, 5, 4, 3 →
sorted   unsorted

i=4

1, 2, 3, 4, 5 →
s   u

1, 2, 3, 4, 5
Sorted

```
* for ( int i = 0, i < n-1; i++) {
      int smallestIndex = i;
    for ( int j = i+1; j < n; j++ {
        if ( arr[j] < arr[SI]){
           SI = j;
        }
    }
    swap ( arr[i], arr[j]),
  }
```