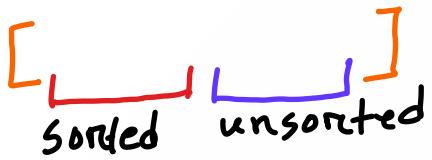
# Selection Sort:

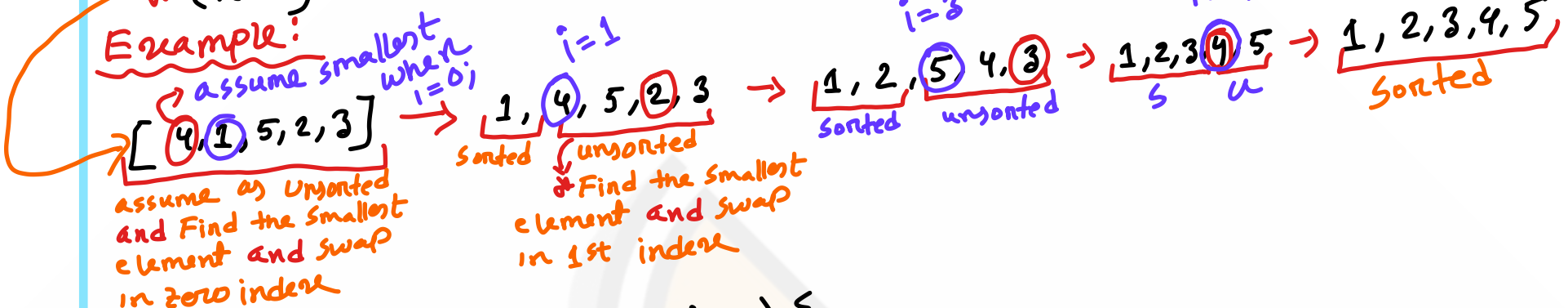
* One kind of opposite of bubble sort
* Imagine a array into two parts




→ 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:




```
* 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]);
  }
```