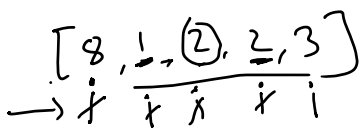
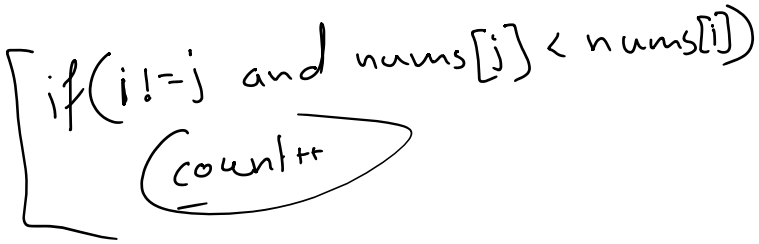
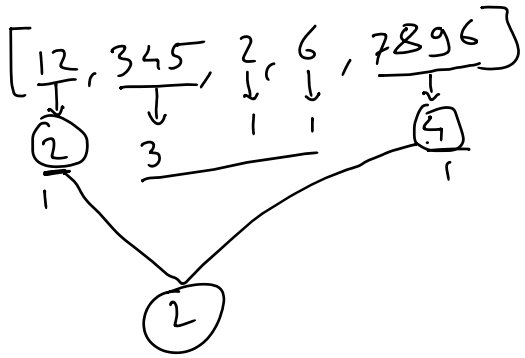
Lec20

17 February 2026 12:22 PM



8 2 3





Sorting algorithm

↳ ascending order → small → large

↳ descending order → large → small

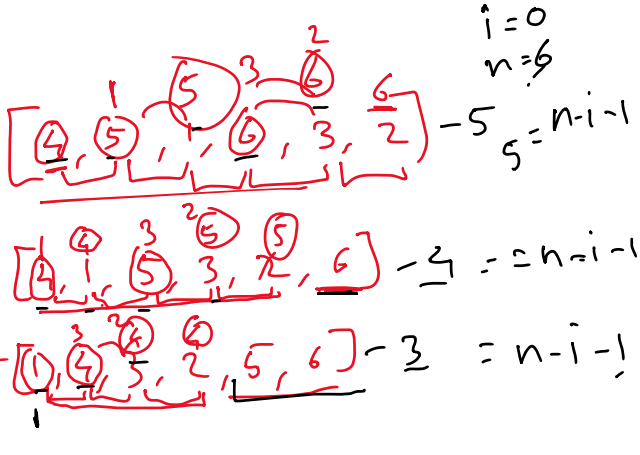
[5A, 3, 2, 5B]

[2, 3, 5A, 5B] → stable

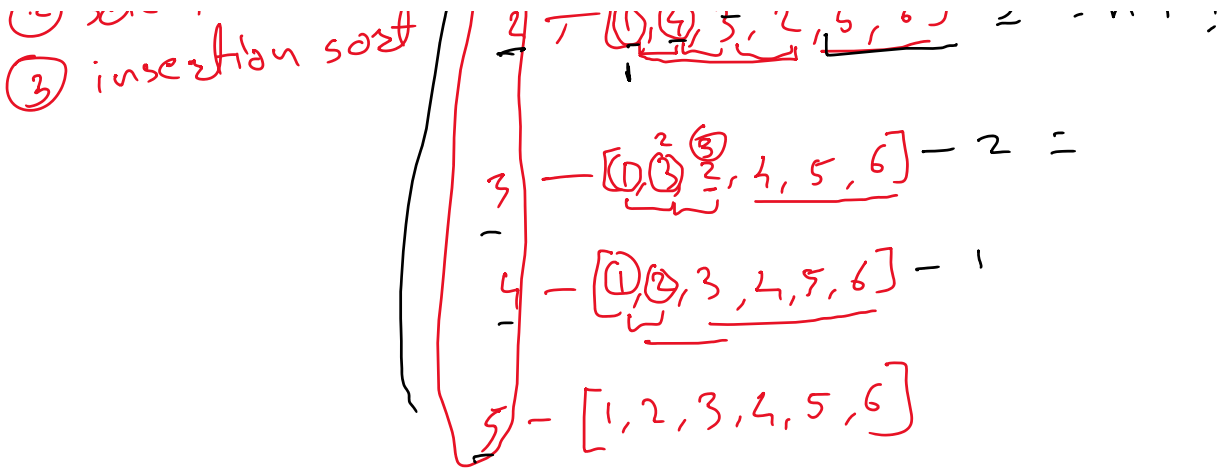
[2, 3, 5B, 5A] → unstable

Sorting algorithm

1. bubble sort
2. selection sort
3. insertion sort

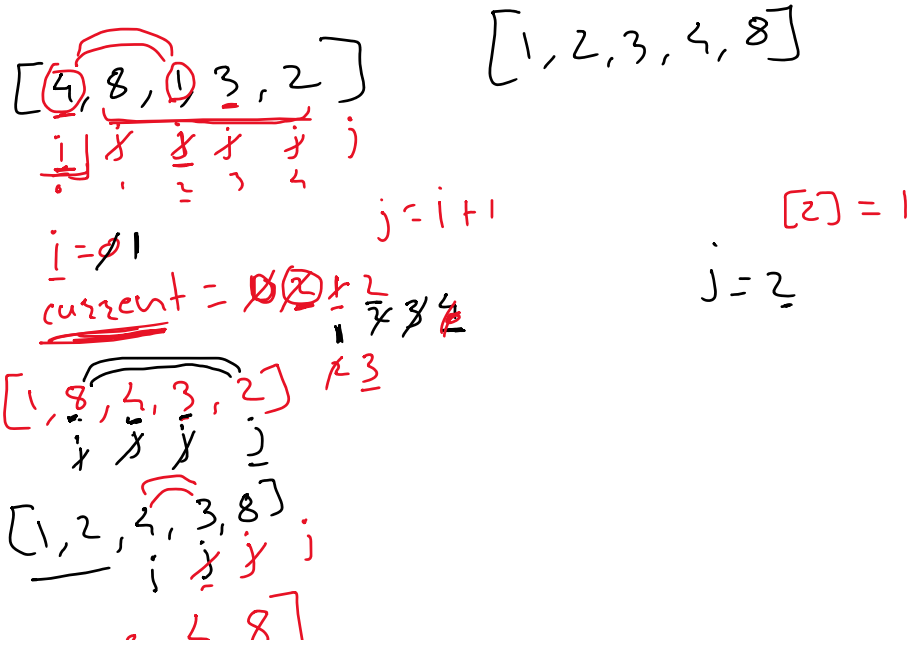


③ insertion sort




```
for(int i = 0; i<n-1; i++){
    for(int j=0; j<n-i-1; j++){
        if(arr[j] > arr[j+1]){
            temp = arr[j]
            arr[j] = arr[j+1]
            arr[j+1] = temp
        }
    }
}
```

selection sort



[1, 2, 3, 4, 8]

[5, 4, 2, 8, 3]