Lec21

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[1, 2, 3, 5, 7, 8]

n-1

i = 0

current = i

j = i+1

[0] = 5 > [j]

[3] = 3

[4] = 1 > [j]

[1] = 8

[2] = 7

[3] = 3

[2] = 7

[3] = 7

[4] = 5

[4] = 7

insertion sort

[5, 8, 2, 1, 4]

sorted | unsorted

[5, 8, 2, 1, 4]

[1, 2, 4, 5, 8]

8

2

1

4

```
for(int i = i ; i < arr.length; i++){
    key = arr[i]
    j = i - 1;
    while(j >= 0 && arr[j] > key){
        arr[j+1] = arr[j];
        j--;
    }
```

```
    }
    arr[j+1] = key;
}
```