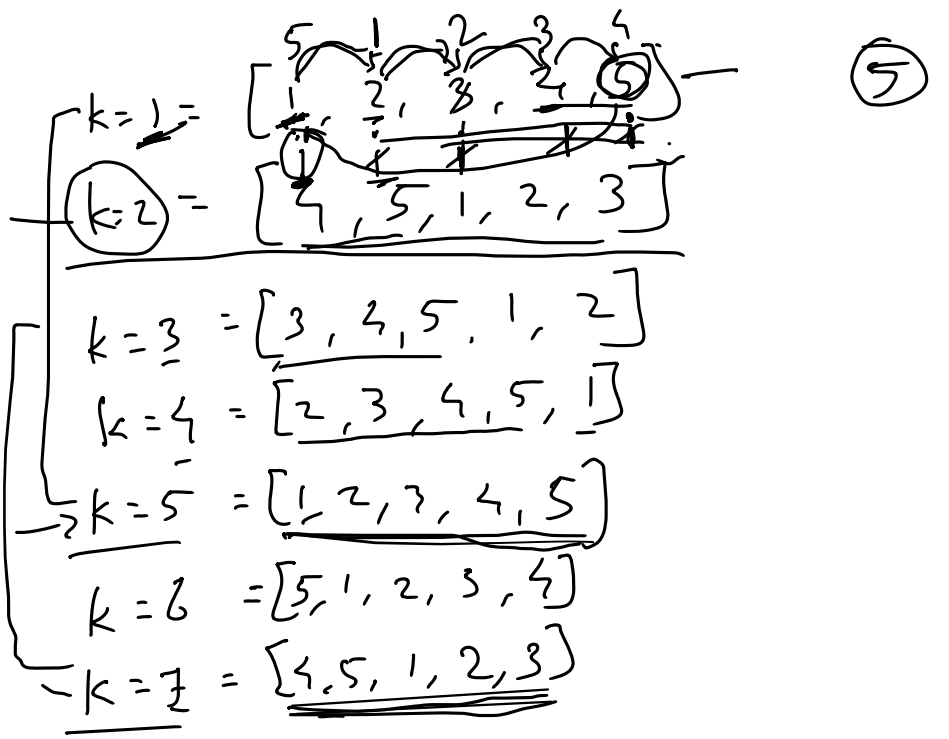
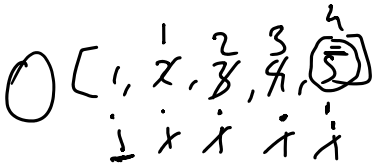
Lec22

19 February 2026 10:46 AM

Rotate array by k times





i>0

```
n = arr.length
key = arr[n-1]
for(i=n-1; i>0; i--){
    arr[i] = arr[i-1]
}
arr[i] = key
```

k = 7

$k = k \% n$

$2 = 7 \% 5$

$k = 5$

$n = 5$

$0 = 5 \% 5$

$1 = 6 \% 5$

$2 = 7 \% 5$

[5, 4, 3, 2, 1]

[5, 4, 3, 2, 1]

$i < j$

```
j = 0
j = n-1
while(i<j) {
    temp = arr[i]
    arr[i] = arr[j]
    arr[j] = temp
}
```

[1, 2, 3, 4, 5]

→ [5, 4, 3, 2, 1]

[4, 5, 3, 2, 1]

[4, 5, 1, 2, 3]

$k = 2$ → [4, 5, 1, 2, 3]

```
Reverse (arr, 0, n-1)
Reverse (arr, 0, k-1)
Reverse (arr, k, n-1)
```