

k<sup>th</sup> largest element

arr = [3, 2, 1, 5, 6, 4];

Apply selection sort

selectionsort(arr, K)

for int i=0; i < arr.length-1 and i < K; i++)

last = arr.length - i - 1;

max = getMax(arr, 0, last)

Swap(arr, first, last)

max = start

int temp = arr[start]  
arr[start] = arr[end]  
arr[end] = temp

for i = start, i <= end; i++

arr[i] > arr[max]

max = i

return max

find  $K^{\text{th}}$  largest element (arr, k)

Selection Sort (arr, k)

return arr[arr.length - k];

