```javascript
function quickSelect (arr, k) {
    return quickSelectHelper(arr, 0, arr.length - 1, k-1)
}

function quickSelectHelper (arr, low, high, k) {
    if (low <= high) {
        const pos = partition(arr, low, high)

        if (pos > k) {
            return quickSelectHelper(arr, low, pos - 1, k)
        }
        else if (pos < k) {
            return quickSelectHelper(arr, pos + 1, high, k)
        }
        else return arr[pos]
    }
}

function partition (arr, low, high) {
    const pivot = arr[high]
    let i = low - 1

    for (let j=low; j<high; j++) {
        if (arr[j] < pivot) {
            i++
            swap(arr, i, j)
        }
    }

    swap(arr, i+1, high)
    return i+1
}

function swap (arr, i, j) {
    let t = arr[i]
    arr[i] = arr[j]
    arr[j] = t
}

console.log (quickSelect([8, 5, 2, 9, 7, 6, 3], 3))
```