Quick sort

Problem - Given an array of integers, sort the array.

const arr = [-6, 20, 8, -2, 4]

quickSort(arr) => Should return [-6, -2, 4, 8, 20]

Quick sort idea

Identify the pivot element in the array

- ◦ Pick first element as pivot
- ◦ Pick last element as pivot (Our approach)
- ◦ Pick a random element as pivot
- ◦ Pick median as pivot

Put everything that's smaller than the pivot into a 'left' array and everything that's greater than the pivot into a 'right' array

Repeat the process for the individual 'left' and 'right' arrays till you have an array of length 1 which is sorted by definition

Repeatedly concatenate the left array, pivot and right array till one sorted array remains

Quick sort example