Name	Worst Case Runtime	Difficulty	
BubbleSort	n^2	easiest	
SelectionSort	n^2	easier	
MergeSort	n*log(n)	medium	

-30 0	5	10	97
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From i = 0 to < array length

From j = 0 to (array length - i)

If the element at j is greater than j+1

Swap elements at j and j+1

I = 1

J = 2

indexofMin = 1

-30 0 5 10 97

From i = 0 to < array length

Assume the element at 'i' is the least in the array, assign i to 'indexOfMin'

For j from i + 1 to end of array

See if there is an element with *lower* value

If there is, record its index

If the index of the current element and the index of the 'lowest' element is not the same, swap em

Splitter

If the incoming array doesn't have length 1

Divide the incoming array into two halves

Call the 'splitter' again with each half

Call the 'merger' with each half

Merger

Create 'results' array

While there are still elements in both arrays

If the first element the left half is less than first in right half

'shift' the element from left into a 'result' arr

else

'shift' the element from right into a 'result' arr

Take everything from the array that still has stuff in it and put it in results

-30 0 22 97

Results



