Task-1

I have written the meregesoret algorithm to soret the list in O(nlogs) time.

Task-2 to 20 (2-120)

outry from much an

I have used the divide and conquere part of the mage merge sort algorithm at to return the max value at every meet recursive step.

Took-3
horre I have slightly changed the merge
function in the mergesont algorithm. In the
condition where an element of the left
array is bigger than the right array
element, I have added a count that
adds as many elements there are on the
right side of designated left sub-array.

to desired

Hopin off

I have used two mall functions that returns the max value at every recoverive step. (same as task-2). One of them squarges the value. Then the answer function reconsidely adds the smaller element and the organie of the bigger element. In each reconsive step it evaluates and neturns the largest value.

Task+5 ple knoz-prog sett is oiterat I have used the quick sont algorithm as shown in the pseudo code.

-Herce I have used the quick select algorithm. It makes changes in the mother function. It does recursion on the left or on the right based on the neturned value -being biggen on smaller than the pivot.