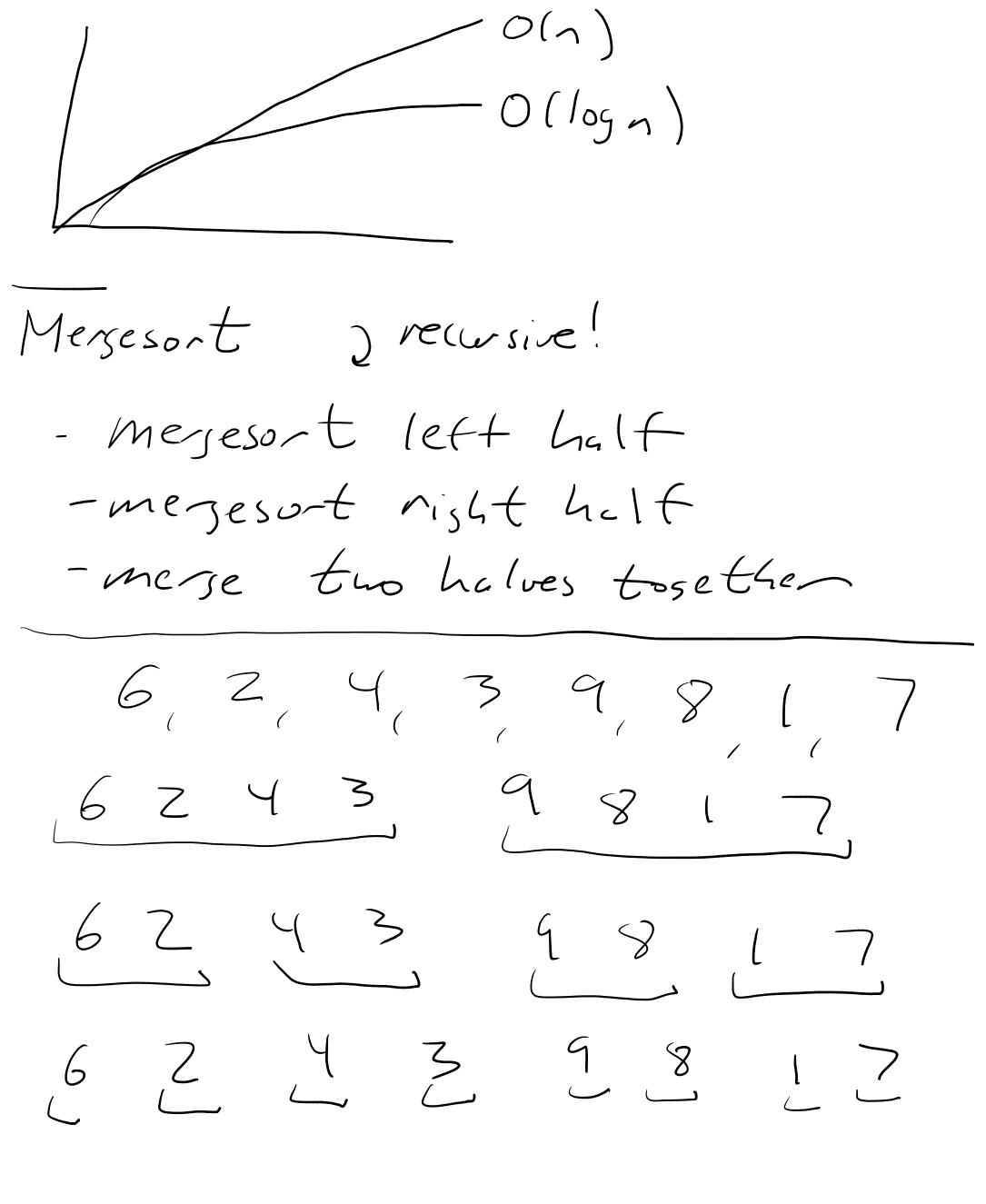
Sorting-useful	for a zillion
purposes	
In previous exp	erinces.
"5/ow sorts" -	- selection sort
$\rightarrow O(n^2)$	insation sort bubble sort
1+2+3+	+ M-1 = 0(n2)
In this class	
mersesont	7 all we
quicksort	0 (n log n)
heapsort	
	[vith detzils, cavects, etc]
$O(n^2)$	0 (n log n)
O(n*n)	0(1 * log n)
	n 7



26348917 23461789 12346789 How much work? Splitting takes essatially no work at all, be cause all we really do is accounting - "mergeso-t list indices & shalf" - l'mergesont list incides half+1end" Work is in the merging.

worst case! nworst case: n 6 7 8 9 How many numbers were rewritta? Portormence: n * # of rows above n *logn

list risht End left right End Stat risht temp stated at o in temp list whereas leftStat in original list was clsewhere