

Question: 4.5.61		
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	Exp				
	1	2	3	4	5
size n	100	1000	10000	100000	1000000
Time in nanoseconds: 1	305262	605340	4641540	39939167	275839622
n logn	200	3000	40000	500000	6000000

	n vs time	n vs nlogn
mergeSort	$O(n \log n)$	$O(n \log n)$
quickSort	$O(n^2)$	$O(n \log n)$
insertionSort	$O(n^2)$	$O(n^2)$
selectionSort	$O(n^2)$	$O(n^2)$
bubbleSort	$O(n^2)$	$O(n^2)$

Comparison of Time Complexity and $n \log n$			

