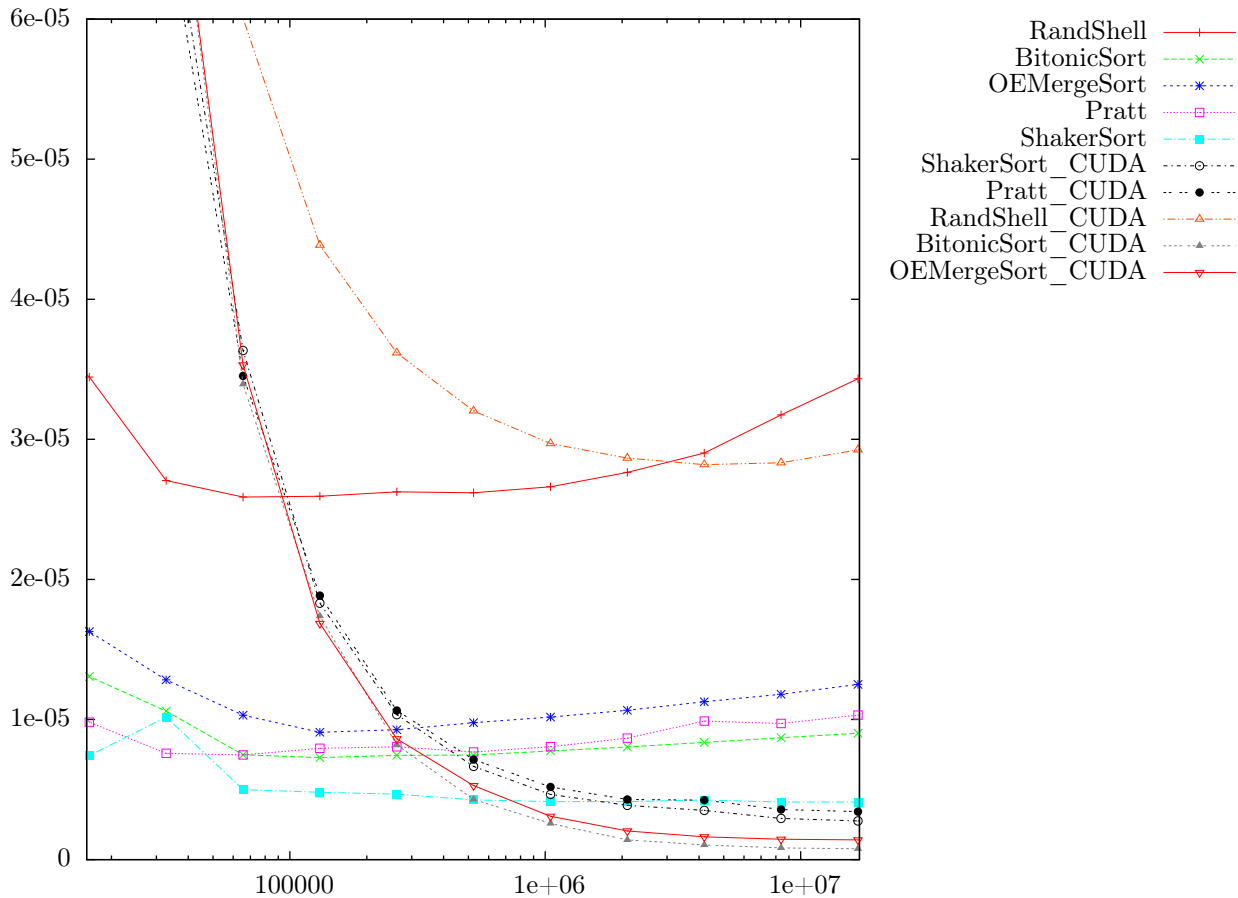


Time is  $O(n \log n)$

time(ms)/ $n \log n$



$n$