

So,  $T(n) = \underline{O(n \lg n)}$  (tightest upper bound)

$T(n) = \underline{\Omega(n \lg n)}$  (tightest lower bound)

$T(n) = \underline{\Theta(n \lg n)}$

for  $2.056 \leq c \leq 2.05a$

tightest  
upper  
bound

tightest  
lower  
bound