Assignment 2

1.1 Show that $k \lg k = \Theta(n)$ implies $k = \Theta\left(\frac{n}{n \ln n}\right)$.

$$k \ln k = \Theta(n) \Longrightarrow \Theta(k \ln k) = n$$

$$\ln n \Longrightarrow \Theta(\ln[k \ln k])$$