Exercise 3.2-8:

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

$\therefore n/\ln n = \Theta(\frac{k \ln k}{\ln(k \ln k)}) = \Theta(\frac{k \ln k}{\ln k + \ln \ln k})$

$\because \ln k + \ln \ln k = \Theta(\ln k)$

$\therefore n/\ln n = \Theta(\frac{k \ln k}{\ln k}) = \Theta(k)$

$\therefore k = \Theta(n/\ln n)$