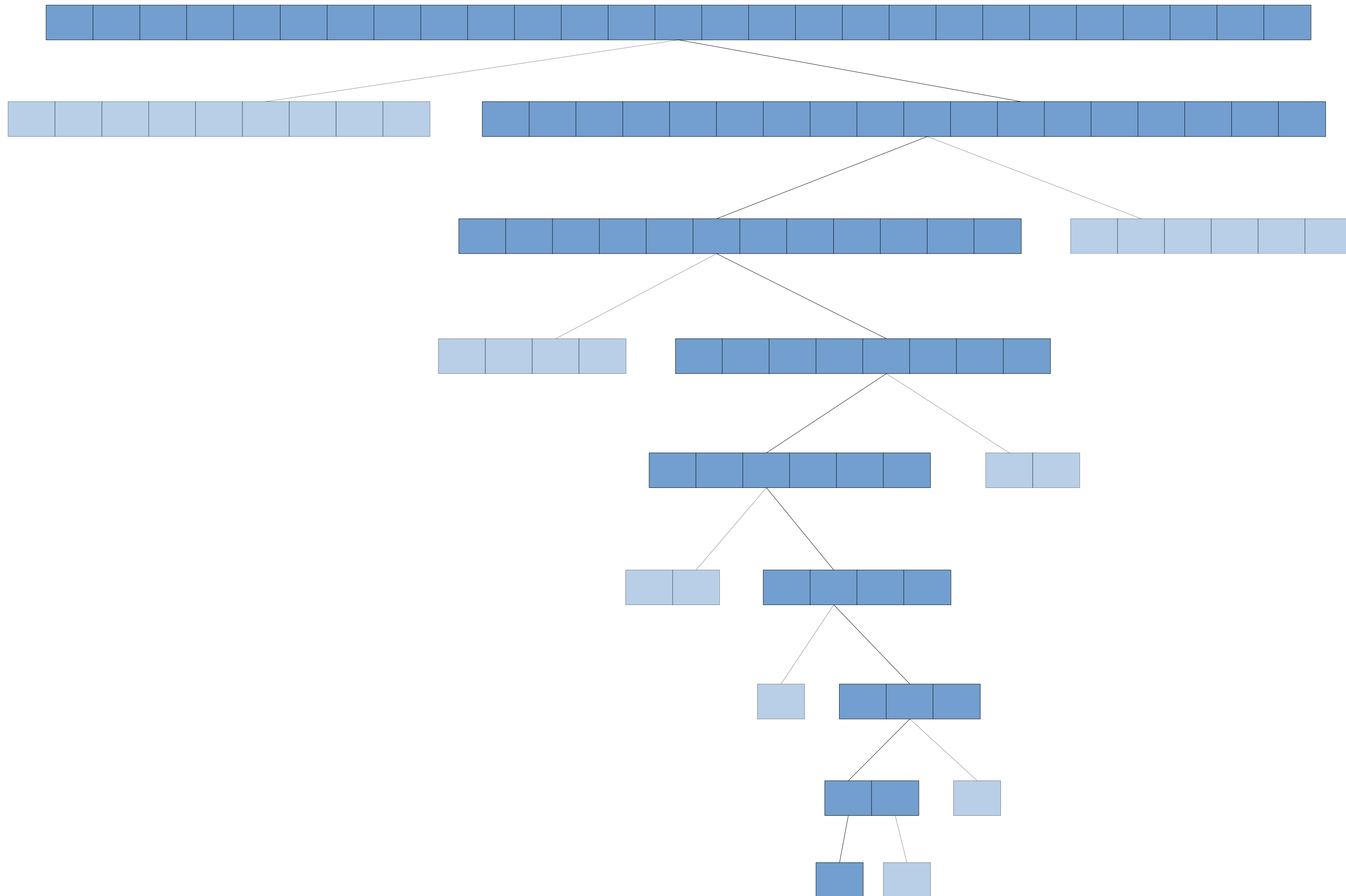


We reduce the size of the input approximately by 2/3 each time



$$\log_{3/2}(N)$$

=

$$\frac{\log(N)}{\log(3/2)}$$