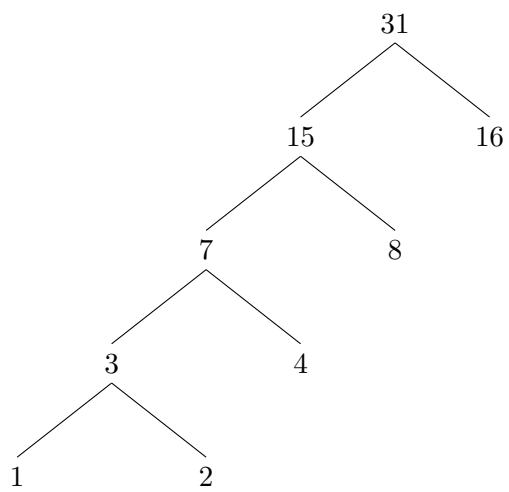


SICP Exercise 2.64

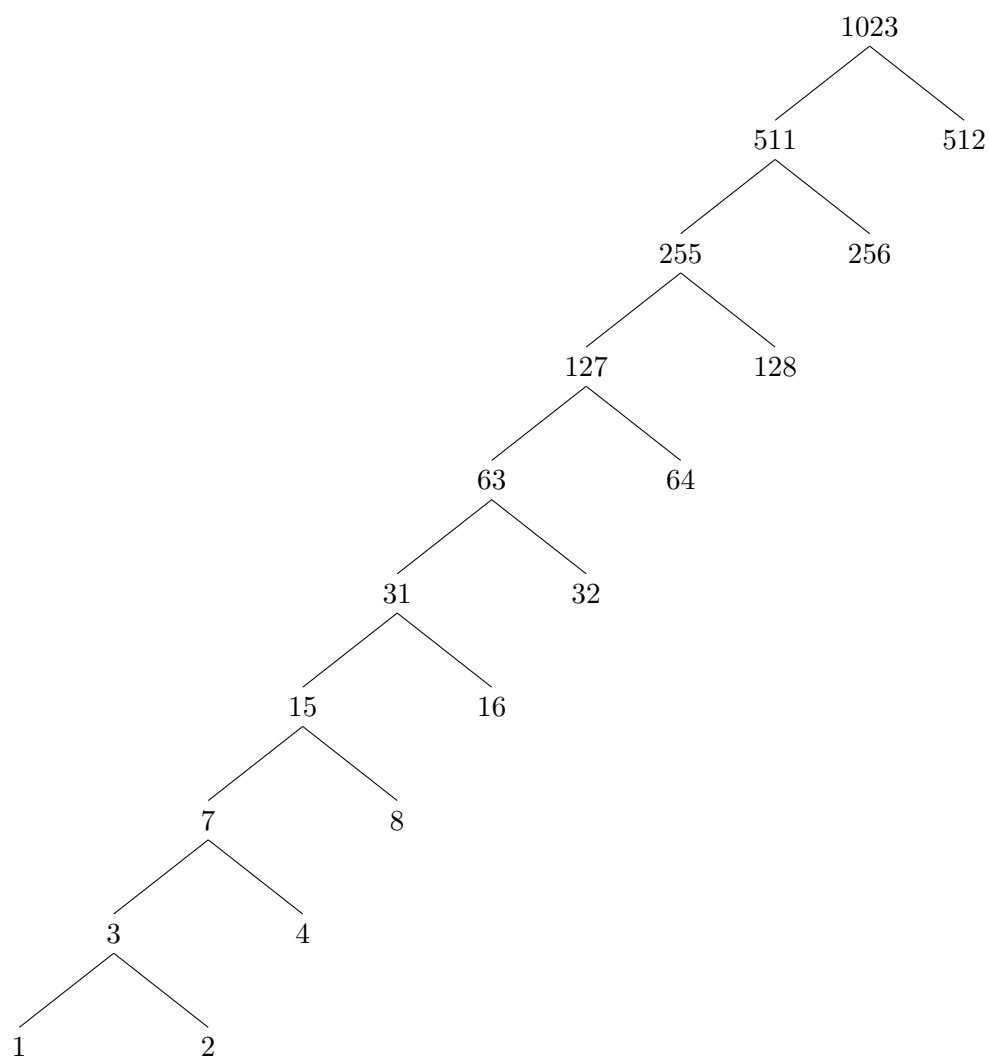
Yuchong Pan

August 19, 2016

The tree for $n = 5$ is given as follows:



The tree for $n = 10$ is given as follows:



In such a tree (for general n), one bit is required to encode the most frequent symbol, and $(n - 1)$ bits are required to encode the least frequent symbol.