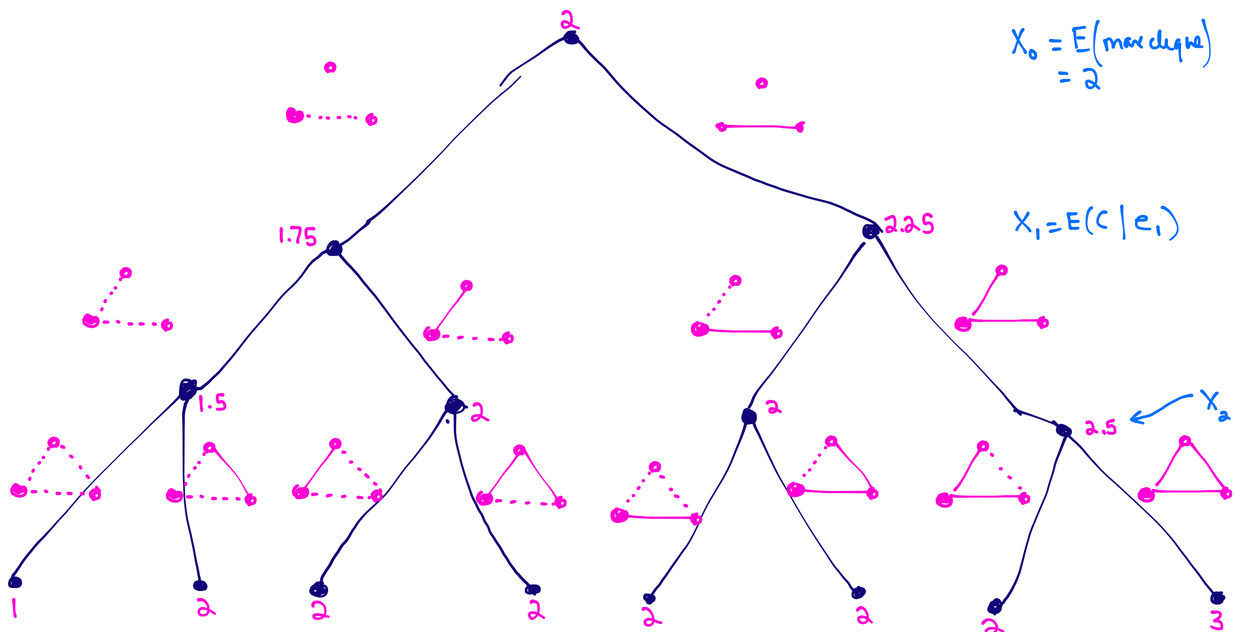

$X_0 = E(\text{max clique}) = 2$

$X_1 = E(C \mid e_1)$

X_2

$\{X_t\}$ martingale wrt $\{Y_t\}$ where $X_t = f(Y_0, \ldots, Y_t)$ if

$$E(X_t \mid Y_0, \ldots, Y_{t-1}) = X_{t-1}$$

$$X_0 = E(\underbrace{\text{max clique in } G(\underset{3}{n}, \underset{\frac{1}{2}}{p})}_{C})$$

$$X_1 = E(C \mid e_1)$$

$$X_2 = E(C \mid e_1, e_2)$$

$$X_3 = E(C \mid e_1, e_2, e_3)$$