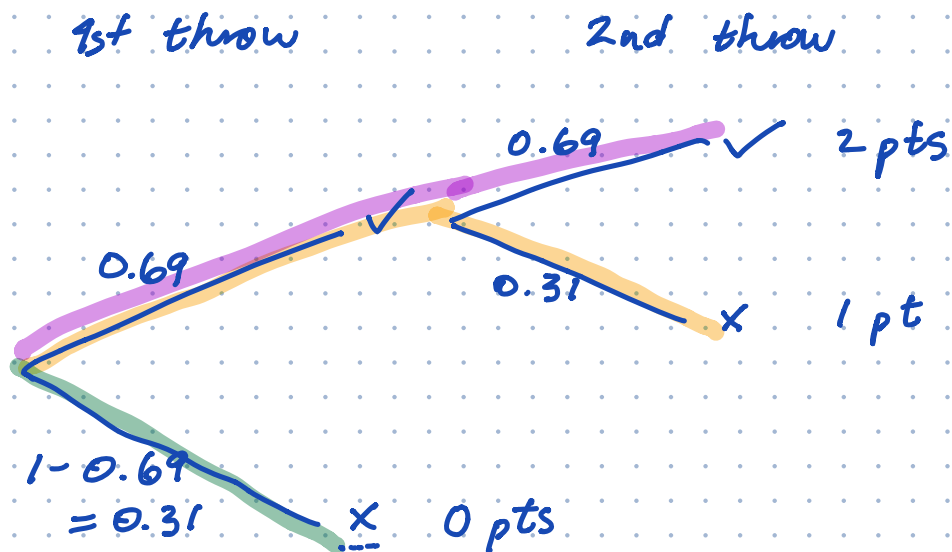


Example: Basketball free throws

A basketball player with a 69% free-throw shooting average is at the line for a one-and-one free throw. What is the probability that the player will score 0 points? 1 point? 2 points?



$$p(0) = 0.31$$

$$p(1) = 0.69 \cdot 0.31 = 0.2139$$

$$p(2) = 0.69 \cdot 0.69 = 0.4761$$

check

$$0.31$$

$$0.2139$$

$$\begin{array}{r} 0.4761 \\ \hline 1.0 \end{array}$$