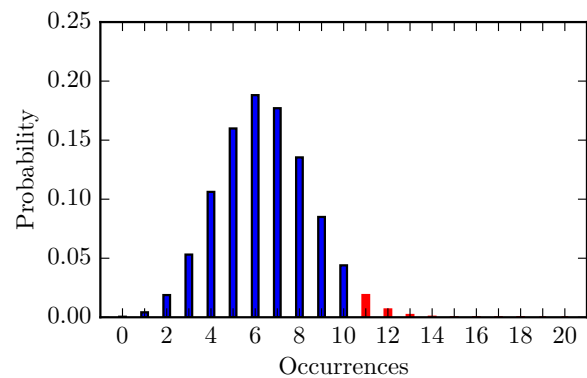
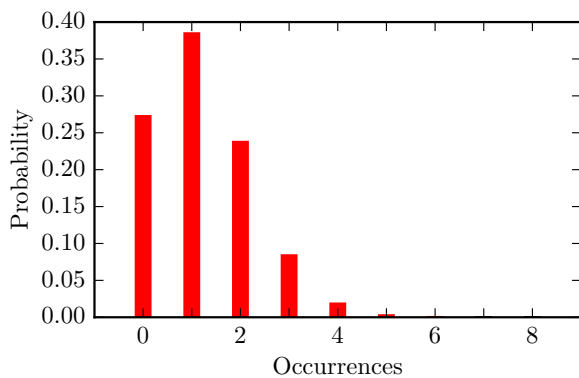
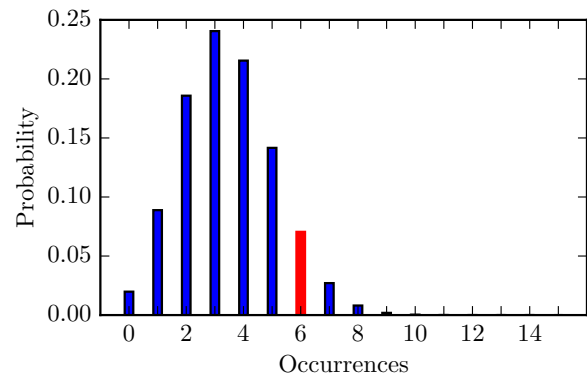
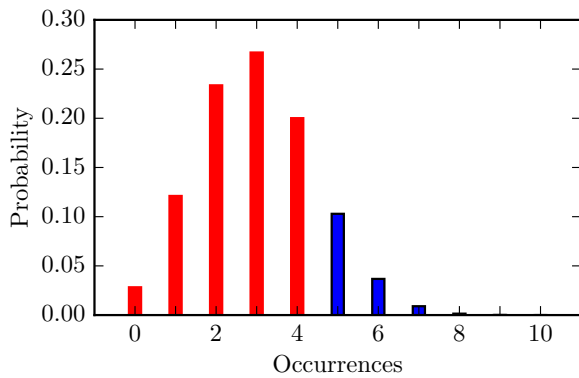


Binomial Distribution Card Sort



$$X \sim B(10,0.3)$$

$$P(X \leq 4) = 0.8497$$

$$\text{mean} = 3$$

$$\text{variance} = 2.1$$

$$X \sim \text{Bin}(8,0.15)$$

$$\text{mean} = 1.2$$

$$\text{variance} = 1.02$$

$$P(X \leq 6) = 0.9999$$

$$X \sim B(15, 0.23)$$

$$P(X = 6) = 0.0705$$

$$P(X \leq 6) - P(X \leq 5)$$

$$\text{variance} = 2.6565$$

$$X \sim \text{Bin}(20, 0.32)$$

$$\text{mean} = 6.4$$

$$P(X \geq 11) = 1 - P(X \leq 10)$$

$$P(X > 10) = 0.0279$$