

STAT1301 - Assignment 1

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$$\beta = \frac{P(P, I)}{p}$$

$$P = \beta p$$

$$\alpha = \frac{P(\{(P', I)\} \cap \{(P', I), (P', I')\})}{P(\{(P', I), (P', I')\})}$$

$$\alpha = \frac{P(P', I)}{1 - p}$$

$$P(P', I) = \alpha(1 - p)$$

$$P(\{(P, I)\} | \{(P, I), (P', I)\})$$