

# SPAB - assignment 03

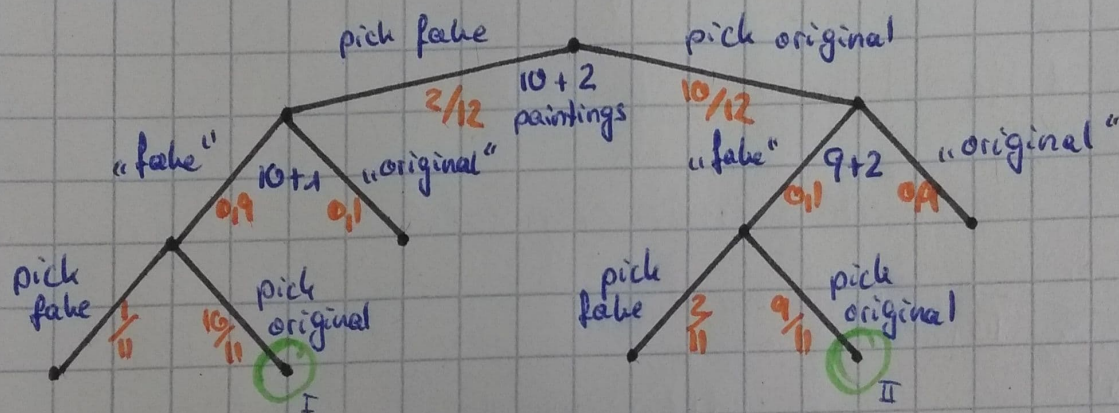
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## Task 3.1

$p = 0,1$ ,  $k \geq 9$  ( $k$  failures, then 1 success)

$$P_p^{\text{geo}}[k \geq 9] = \sum_{i=1}^9 (1-p)^i p \approx 0,55$$

## Task 3.2



interesting outcome

probabilities

$$I: \frac{2}{12} \cdot 0,9 \cdot \frac{10}{11} = 0,136$$

$$II: \frac{10}{12} \cdot 0,1 \cdot \frac{2}{11} = 0,068$$

$$p = 0,205$$