Übung 5

5.1) $\frac{1}{A^N}$

5.2) $Pr(N = 100, A = 2, Pattern = "01", t = 1)$

$$Pr(N, A, Pattern, t) \approx \frac{\binom{n+t}{t} \cdot A^n}{A^N} = \frac{\binom{N - t \cdot (k-1)}{t}}{A^{t \cdot k}}$$

$$Pr(100, 2, 01, 1) \approx \frac{\binom{99}{1}}{2^2} = \frac{99}{4} = 24{,}75$$