

$$\begin{aligned}a_0 &= 0 \\ a_n &= a_{n-1} + 2\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = 2 \cdot n$$

$$\begin{aligned}a_0 &= 0 \\ a_n &= a_{n-1} - 5\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = -5 \cdot n$$

$$\begin{aligned}a_0 &= 1 \\ a_n &= a_{n-1} + 2\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = 2 \cdot n + 1$$

$$\begin{aligned}a_0 &= 1 \\ a_n &= n * a_{n-1}\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = n!$$

$$\begin{aligned}a_0 &= 1 \\ a_n &= 2 * a_{n-1}\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = 2^n$$

$$\begin{aligned}a_0 &= 0 \\ a_1 &= 1 \\ a_n &= a_{n-1} + a_{n-2}\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n \approx \frac{\left(1 + \sqrt{5}\right)^n - \left(1 - \sqrt{5}\right)^n}{2^n \sqrt{5}}$$

$$\begin{aligned}a_0 &= 1 \\ a_n &= -2 * a_{n-1}\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = (-2)^n$$

$$\begin{aligned}a_0 &= 1 \\ a_n &= \frac{1}{2} * a_{n-1}\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = 2^{-n}$$

$$\begin{aligned}a_0 &= 1 \\ a_n &= \frac{1}{4} * a_{n-1}\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = 4^{-n}$$

$$0 \ 1 \ 1 \ 2 \ 3 \ 5 \ 8 \ 13 \ 21 \ \dots$$

$$\begin{aligned}a_0 &= 2 \\ a_n &= a_{n-1} + 2\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = 2 \cdot n + 2$$

$$\begin{aligned}a_0 &= 0 \\ a_n &= n * a_{n-1}\end{aligned}$$

$$\forall n \in \mathbb{N}_0 : a_n = 0$$