$$a_0 = 0$$
$$a_n = a_{n-1} + 2$$

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

$$a_0 = 0$$
$$a_n = a_{n-1} - 5$$

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

$$a_0 = 1$$
$$a_n = a_{n-1} + 2$$

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

$$a_0 = 1$$
$$a_n = n * a_{n-1}$$

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

$$a_0 = 1$$
$$a_n = 2 * a_{n-1}$$

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

$$a_0 = 0$$
$$a_1 = 1$$
$$a_n = a_{n-1} + a_{n-2}$$

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

$$a_0 = 1$$
$$a_n = -2 * a_{n-1}$$

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

$$a_0 = 1$$
$$a_n = \frac{1}{2} * a_{n-1}$$

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

$$a_0 = 1$$
$$a_n = \frac{1}{4} * a_{n-1}$$

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

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0 1 1 2 3 5 8 13 21 ...

$$a_0 = 2$$
$$a_n = a_{n-1} + 2$$

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

$$a_0 = 0$$
$$a_n = n * a_{n-1}$$

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