Let us define a sequence by:

- $F_1 = 1$,
- $F_2 = 1$,
- $\forall n > 2, F_n = F_{n-1} + F_{n-2}.$

Some terms in this sequence are

 $1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, \ldots$

Theorem

$$\forall n \in \mathbb{N}, \quad F_n < 2^n.$$

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