Given the following definition of Fibonacci numbers

Let $n \in \mathbb{N}$. The n-th Fibonacci number be defined by

$$F_n = 0, \ if \ n = 0$$
$$F_n = 1, \ if \ n = 1$$
$$F_n = F_{n-1} + F_{n-2}, \ otherwise$$

The first 10 Fibonacci numbers are 0, 1, 1, 2, 3, 5, 8, 13, 21, 44.