潤/13 $X(n) = \frac{(\gamma^n - \gamma^n)}{\sqrt{5}} \xi_{33} \cdot \gamma = \frac{(1+\sqrt{5})}{2} \cdot \gamma = \frac{(1-\sqrt{5})}{2}$ Fib(n) = Fib(n-1) + Fib(n-2)M=00EE $X(0) = \frac{1-1}{2} = 0$ Fib (0) = 0 F) $X(0) = \overline{Fib}(0)$ N = 1 a 25 $X(1) = \frac{1+15}{2} - \frac{1-15}{2} = \frac{1}{15} = 1 \text{ Fib}(1) = 1 \text{ Fib}(1)$ $X(1) = \frac{1+15}{2} - \frac{1-15}{2} = \frac{1}{15} = 1 \text{ Fib}(1) = 1 \text{ Fib}(1)$ for n=0,1 a EZ X(n) = Fib(n). $=\frac{(\gamma^{n}-\gamma^{n})(\gamma+\gamma)+\gamma\gamma^{n}-\gamma^{n}\gamma}{\sqrt{5}}$ $= \frac{9^{N} - 4^{N}}{\sqrt{5}} - 94 \frac{9^{N-1} - 4^{N-1}}{\sqrt{5}}$ $= \frac{9^{N} - 4^{N}}{\sqrt{5}} - \frac{(1+\sqrt{5})}{2} \cdot \frac{(1-\sqrt{5})}{\sqrt{5}} \cdot \frac{9^{N-1} - 4^{N-1}}{\sqrt{5}}$ $= \frac{\gamma^{N-1} + \gamma^{N-1} + \gamma^{N-1}}{\sqrt{\tau}}$

より、
$$X(n+1) = X(n) + X(n-1) が放耳。
まって $n+1$ の時、 $X(n+1) = Fib(n) + Fib(n-1) = Fib(n+1)$
まって、 $X(n) = Fib(n)$$$