Es 4

Cet f: 1/2 x 1/25 -> 1/20 be the isomorphism of CRT, Then

Solution:

$$\int x = 1 \mod 4$$

$$\begin{cases} x = 0 \mod 5 = x = 5y \end{cases}$$

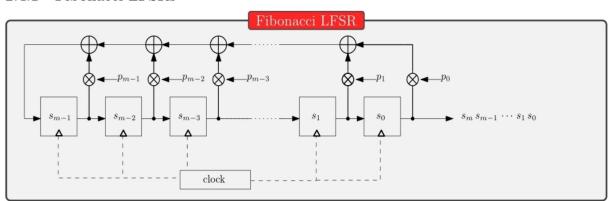
Es 2

A m-bit Fibonacci LFSR has m flip flops and produces an output stream ... s2 s4 so
If a sequence lake ... 01100001001... is observed in the output stream, then

- a) m=4
- b) m = 2
- c) m = 5 V
- d)m=3

Solution:

2.4.1 Fibonacci LFSRs



We see that at some point there are 4 consecutives tenos in the string maximum. Then m = 5 because if m=4 there would be a manent in which out the flip flips contain of, so the whole stream would be composed by stors. Hence m>4 and the first number is 5