

LFSR over $GF(2^4)$ given by FeedbackPoly = $y^4+y+Z(2^4)$
 with basis = [$Z(2)^0$, $Z(2^4)^7$, $Z(2^4)^{14}$, $Z(2^4)^6$]
 with feedback coeff = ["0000", "0000", "1000", "0110"]
 with initial state = ["0000", "0110", "1101", "1000"]
 with current state = ["0000", "0110", "1101", "1000"]
 after loading
 with output from stage S_0

[3	,	, 0]	with taps	[0]
[[0, 0, 0, 0],	[0, 1, 1, 0],	[1, 1, 0, 1],	[1, 0, 0, 0]]		[1, 0, 0, 0]
[[1, 0, 1, 1],	[0, 0, 0, 0],	[0, 1, 1, 0],	[1, 1, 0, 1]]		[1, 1, 0, 1]
[[0, 1, 1, 1],	[1, 0, 1, 1],	[0, 0, 0, 0],	[0, 1, 1, 0]]		[0, 1, 1, 0]
[[1, 0, 1, 1],	[0, 1, 1, 1],	[1, 0, 1, 1],	[0, 0, 0, 0]]		[0, 0, 0, 0]
[[1, 0, 1, 1],	[1, 0, 1, 1],	[0, 1, 1, 1],	[1, 0, 1, 1]]		[1, 0, 1, 1]
[[1, 1, 0, 1],	[1, 0, 1, 1],	[1, 0, 1, 1],	[0, 1, 1, 1]]		[0, 1, 1, 1]

The whole sequence:
 1000, 1101, 0110, 0000, 1011, 0111