We can write SM from the code

```
.define public T1 2
.define public T2 5
.define public T3 3
.wrap target
bitloop:
              side 0 [T3 - 1]; Side-set still takes place when instruction stalls
                                                                                            L1
  out x, 1
  jmp !x do_zero side 1 [T1 - 1]; Branch on the bit we shifted out. Positive pulse
                                                                                            L2
do one:
  jmp bitloop side 1 [T2 - 1]; Continue driving high, for a long pulse
                                                                                  L3
do_zero:
              side 0 [T2 - 1]; Or drive low, for a short pulse
                                                                                  L4
  nop
.wrap
```

	do one				do zero			
Instrution	L1	L2	L3	L4	L1	L2	L3	L4
Is there data in the FIFO?	Υ	Υ	Υ	NONE	Υ	Y	NONE	Υ
Is the SM stalled?	Υ	N	N	NONE	Ν	N	NONE	Υ
How many delay cycles are left for this instruction?	3	2	5	NONE	3	2	NONE	5
What's the value of the output shift register?	0	0	0	NONE	1	1	NONE	1
What's the value of the SM "X" variable?	0	1	1	NONE	0	1	NONE	0
What state are we driving our LED pin to?	0	1	1	NONE	0	1	NONE	0

