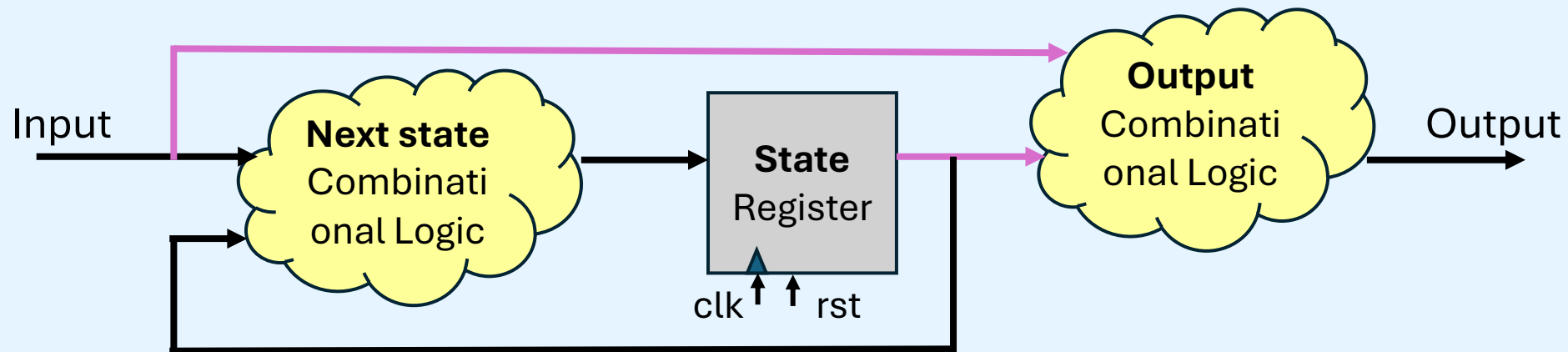
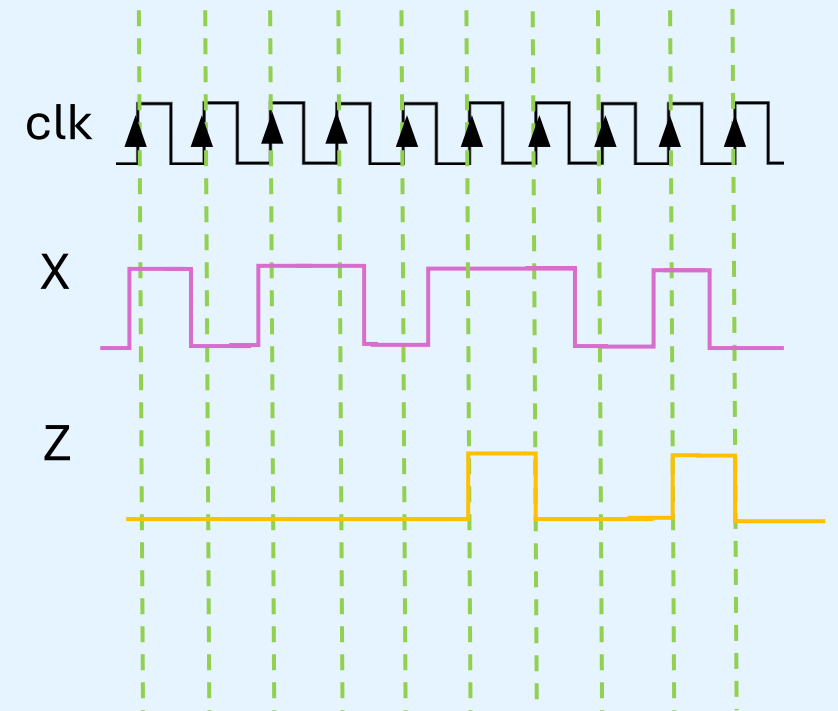


# 1101 sequence detector

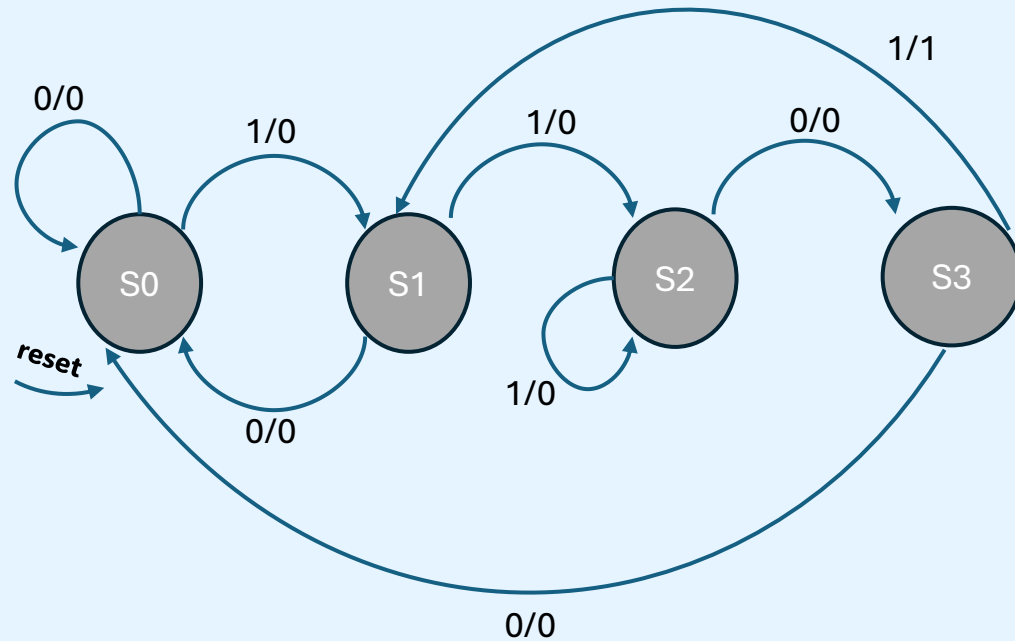
## Using Mealy Machine

X =	1	0	1	1	0	1	1	0	1	0
Z =	0	0	0	0	0	1	0	0	1	0



# Mealy Machine

1101 sequence detector diagram



PS	X = 0		X = 1	
State	Next State	Z	Next State	Z
S0	S0	0	S1	0
S1	S0	0	S2	0
S2	S3	0	S2	0
S3	S0	0	S1	1