

[CS M51A FALL 18] QUIZ 3

Duration: 30 minutes

11/16/2018

Problem 1 (10 points)

Draw the state diagram for a pattern detector that recognizes the pattern: "010", that is:

z(t)=1 if x(t-2,t)=010

z(t)=0 otherwise

Overlapping allowed 010

| | 0 | 1 |
|-------|------|-------|
| Sinit | 5010 | silo |
| 50 | 5010 | 50110 |
| 501 | 5017 | Si10 |
| | | |

