

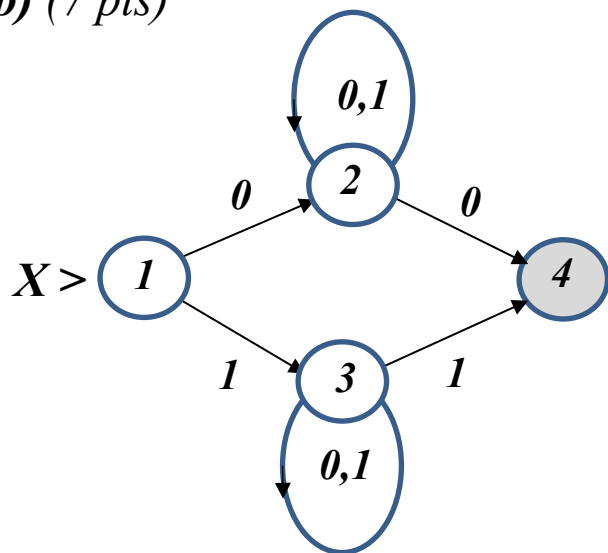
# CS 302 REMOTE QUIZ 1

4 March, 2021

## ANSWERS

(a) (3 pts) See the relevant slide.

(b) (7 pts)



| $q$   | $\sigma$ | $q'$    |
|-------|----------|---------|
| $> 1$ | 0        | 2       |
|       | 1        | 3       |
| 2     | 0        | 2,4 = A |
|       | 1        | 2       |
| 3     | 0        | 3       |
|       | 1        | 3,4 = B |
| *A    | 0        | A       |
|       | 1        | 2       |
| *B    | 0        | 3       |
|       | 1        | B       |

*Note: There is an ambiguity in the question, if the strings with length 1 ("0", "1") must be accepted or not. Following answer does not accept strings with length 1; however, answers accepting those strings are also accepted.*

