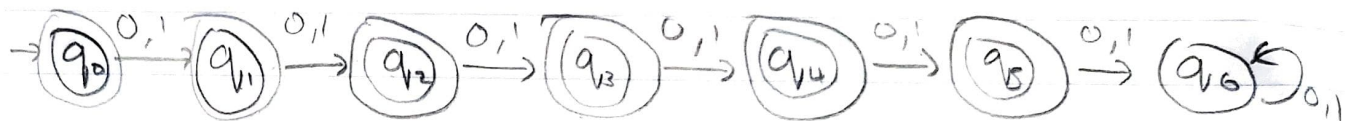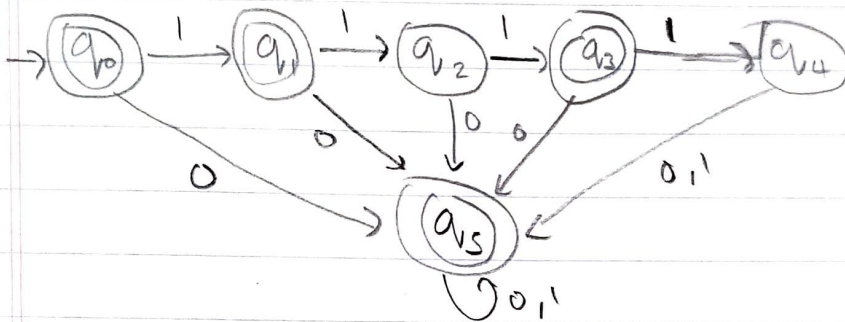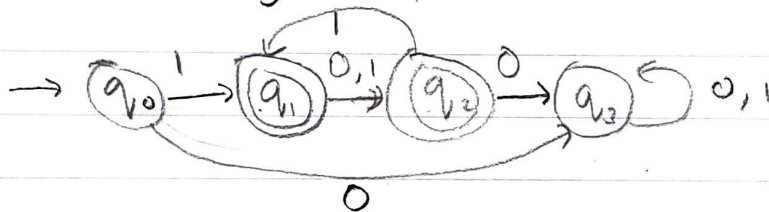1. a) L = length of w at most 5
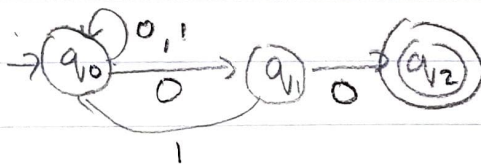

b) L = w is any string except 11 and 1111

c) L = every odd position in w is a 1

2. a) L = w end with 00, three states

b) L = w contains the substring 0101, five states