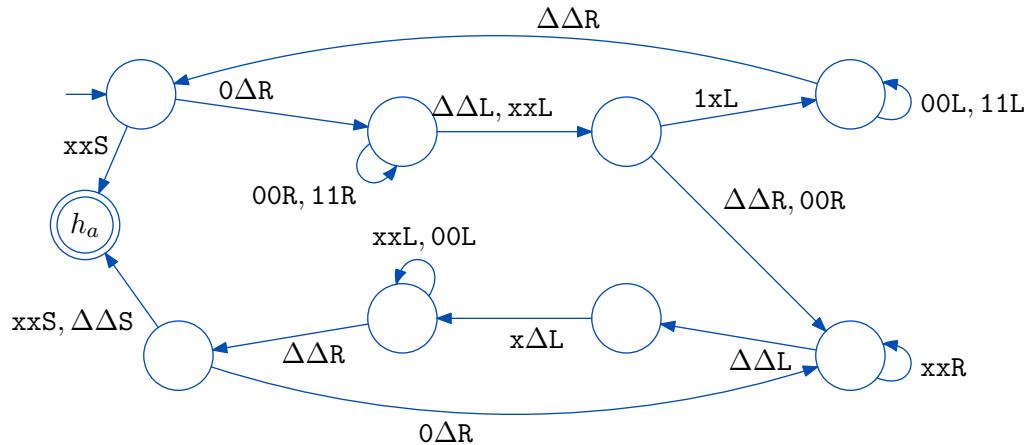
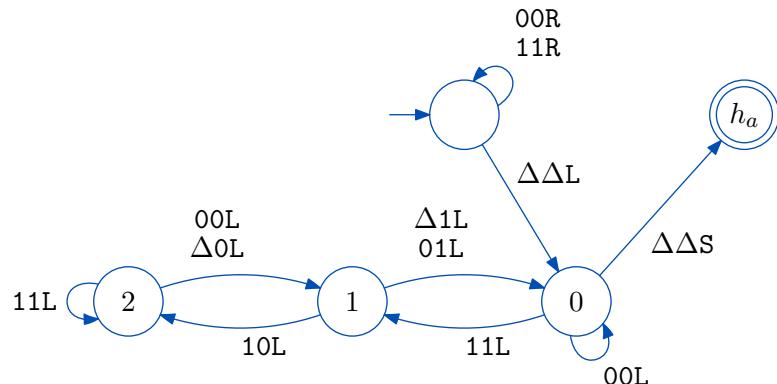


## Some Answers on: Turing Machines

E1:

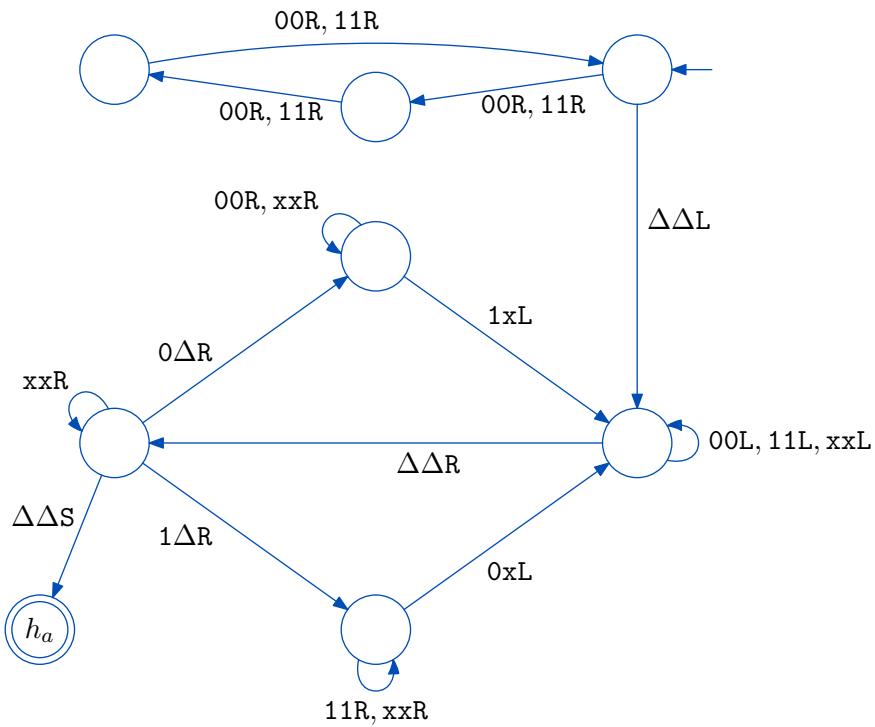


E2:



E3: The set of all binary strings where the blocks of the same character all have the same length, starting with a 0 and finishing with a 1.

E4: The simplest idea is to first check that the length is a multiple of 3. Then feed it into a machine that checks for equal 0's and 1's.



E5: (a) aaaa

(b) bbbb

(c) all strings of a's and b's such that every block of b's has odd length.

E6: (a) 101

(b) 111

(c) all binary strings with a block of 0's of odd length surrounded by 1's.