

Date _____ 20____

Make Turing machine for.

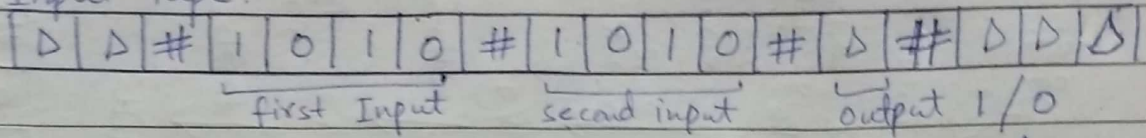
1. XOR operation between two binary numbers.

$$\Sigma = \{1, 0\} \quad \gamma = \{1, 0, x, \bar{x}, x, \bar{y}\}$$

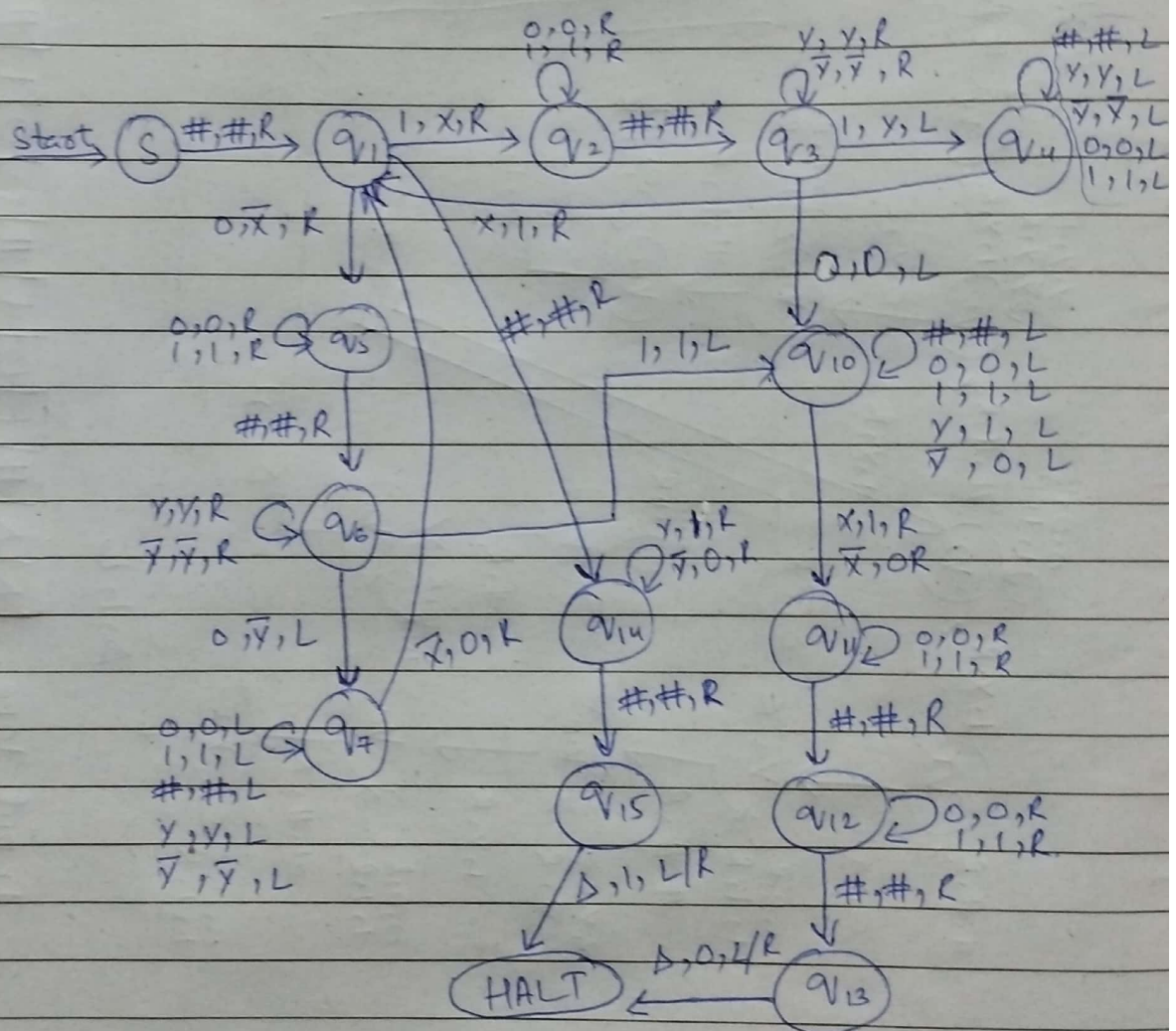
Make Turing Machine for

2. Compare two strings as to whether they are equal or not.
 $\Sigma = \{0, 1\}$, $\gamma = \{0, 1, x, \bar{x}, y, \bar{y}\}$.

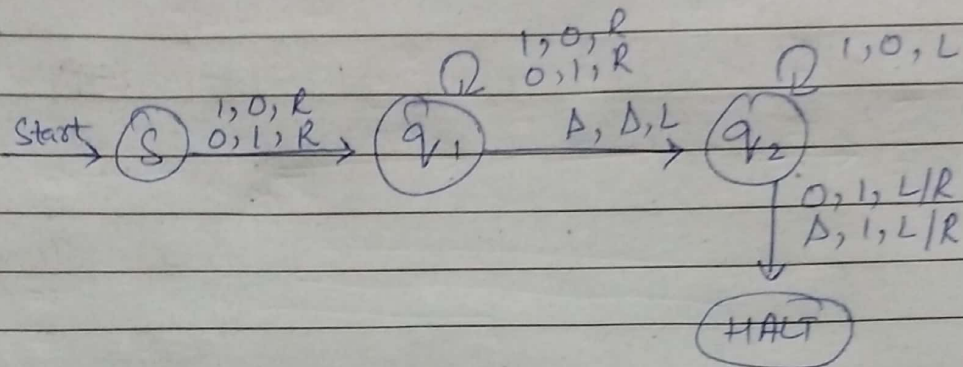
Input Tape:



1 = equal
0 = not equal.



Make Turing machine for
 3. Two's complement of a binary number.
 $\Sigma = \{0, 1\}$



Input Tape:

Δ	Δ	1	0	1	0	Δ	Δ
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