CS 1511 Homework 5

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11 a.

With an input I = 101 for a Turing machine M, here is one valid computation history H. In this computation history H, space = *, q_0 = q_y, q_1 = q_p . $\#q_y101^*\#1q_p01^*\#11q_p1^*\#111q_p^*\#111q_h^*$ This configuration thus ends in the halting state.

11 b.