

4. (i) What is Rule 100 in one-dimensional cell automaton?

(ii) Then starting with  $(0, 0, 0, 0, 0, 0, 0, 0)$  at  $t = 0$ , evolve this 8 cells by the Rule 100 until  $t = 7$ . Show the result below by filling all cells with "0" or "1".

[illegible]