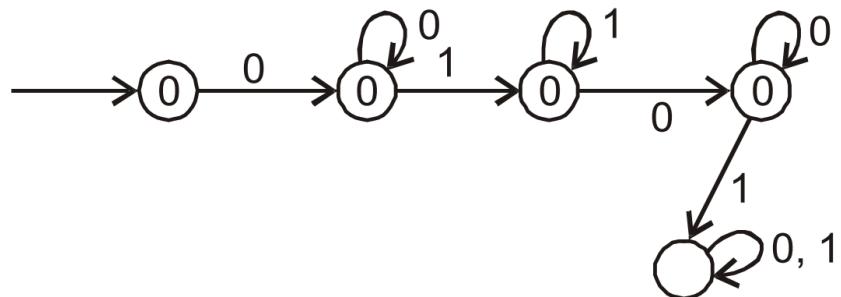


Answer on Question#38197 – Math - Other

$L_1 = \{0^p 1^q 0^r \mid p, q, r \geq 0\}$ is regular:



$L_2 = \{0^p 1^q 0^r \mid p, q, r \geq 0, p \neq r\}$ is context-free language. We can accept or reject L_2 with single stack, insert p 0's into stack skip 1's. For each 0 corresponding to r , remove 0 from stack.