

3) String {0000000}

uq,000000u

uuq₂00000u

uuqxq₃0000u

uuqx0q₄000u

uuqx0xq₃00u

uuqx0x0q₄0u

uuqx0x0xq₃u

uuqx0x0q₅xu

uuqx0xq₅0xu

uuqx0q₅x0xu

uuqxq₅0x0xu

uuq₅x0x0xu

uq₅ux0x0xu

uuq₂x0x0xu

uuqxq₂0x0xu

uuqxqxq₂0xu

uuqxqxq₃0xu

uuqxqx0q₄xu

uuqxqx0xq₄u

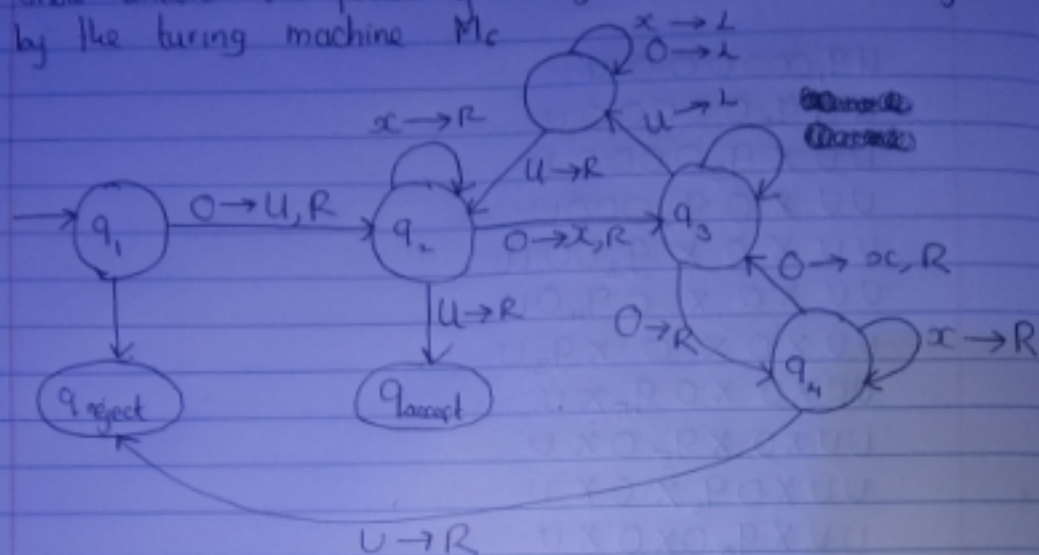
uuqxqx0xu q_{reject}

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STANLEY NGUGI

Assignment 3

Show whether the following strings are accepted or rejected by the Turing machine M_c



(1) String $\{0\}$

uq₁0uv
 vvq₂vv
 vvvq_{accept}

(2) String $\{00000\}$

uq₁00000v
 vvq₂0000u
 vv x q₃000v
 vv x 0 q₄00u
 vv x 0 x q₃0v
 vv x 0 x 0 q₄v
 vv x 0 x 0 v q_{reject}