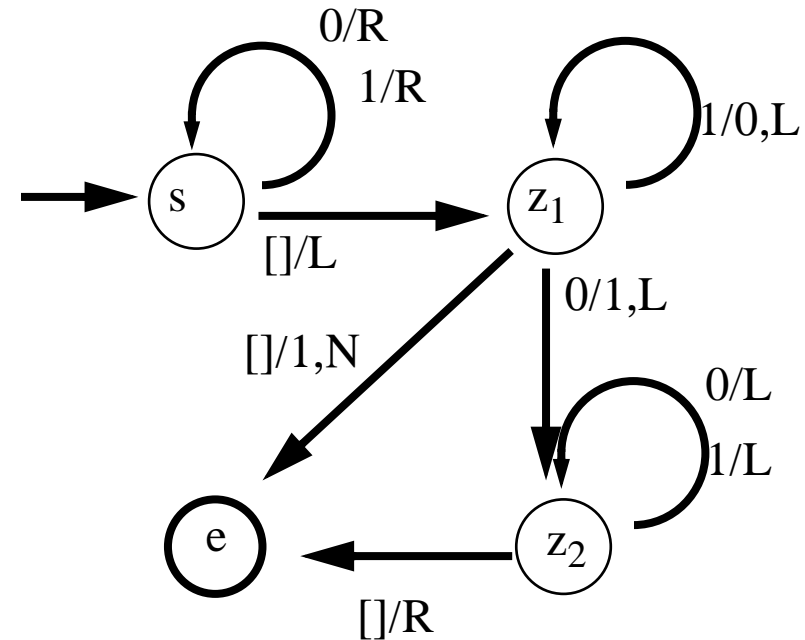


TM = (Z = {s, z₁, z₂, e}, Γ = {0, 1, []}, δ, s, E = {e}, [])

1. $\delta(s, 0) = (s, 0, R)$
2. $\delta(s, 1) = (s, 1, R)$
3. $\delta(s, []) = (z_1, [], L)$
4. $\delta(z_1, 0) = (z_2, 1, L)$
5. $\delta(z_1, 1) = (z_1, 0, L)$
6. $\delta(z_1, []) = (e, 1, N)$
7. $\delta(z_2, 0) = (z_2, 0, L)$
8. $\delta(z_2, 1) = (z_2, 1, L)$
9. $\delta(z_2, []) = (e, [], R)$



s1101[] | -1 s101[] | -³ 1101s[] | -110z₁1[] | -11z₁00[] | -1 z₂110[] | -² z₂[]1110[] | -[]e1110[]

Lemma: $s \text{ bin}(x) [] \vdash^* [] e \text{ bin}(x+1) []$ (für $x \neq 2^k - 1$)
 $\vdash^* e \text{ bin}(x+1) []$ (für $x = 2^k - 1$)