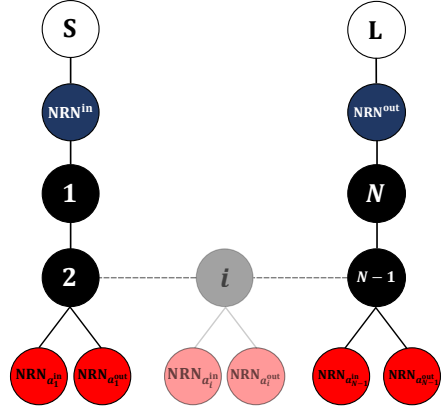


	S	NRN ⁱⁿ	1	2	NRN _{a₂} ⁱⁿ	NRN _{a₂} ^{out}	3	...	N - 1	NRN _{a_{N-1}} ⁱⁿ	NRN _{a_{N-1}} ^{out}	N	NRN ^{out}	L
S	0	1	0	0	0	0	0	...	0	0	0	0	0	0
NRN ⁱⁿ	1	$-jg'_s$	m'_{S1}	0	0	0	0	...	0	0	0	0	0	0
1	0	m'_{S1}	$-jg'_1$	m_{12}	0	0	0	...	0	0	0	0	0	0
2	0	0	m_{12}	$-jg'_2$	$m_2 a_1^{\text{in}}$	$m_2 a_2^{\text{out}}$	m_{23}	...	0	0	0	0	0	0
NRN _{a₂} ⁱⁿ	0	0	0	$m_2 a_1^{\text{in}}$	$-jg_{1 a_1^{\text{in}}}$	0	0	...	0	0	0	0	0	0
NRN _{a₂} ^{out}	0	0	0	$m_2 a_2^{\text{out}}$	0	$-jg_{a_2^{\text{out}}}$	0	...	0	0	0	0	0	0
3	0	0	0	m_{23}	0	0	$-jg'_3$	...	0	0	0	0	0	0
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
N - 1	0	0	0	0	0	0	0	...	$-jg'_{N-1}$	$m_{N-1} a_{N-1}^{\text{in}}$	$m_{N-1} a_{N-1}^{\text{out}}$	$m_{N-1 N}$	0	0
NRN _{a_{N-1}} ⁱⁿ	0	0	0	0	0	0	0	...	$m_{N-1} a_{N-1}^{\text{in}}$	$-jg_{a_{N-1}^{\text{in}}}$	0	0	0	0
NRN _{a_{N-1}} ^{out}	0	0	0	0	0	0	0	...	$m_{N-1} a_{N-1}^{\text{out}}$	0	$-jg_{a_{N-1}^{\text{out}}}$	0	0	0
N	0	0	0	0	0	0	0	...	$m_{N-1 N}$	0	0	$-jg'_N$	m'_{NL}	0
NRN ^{out}	0	0	0	0	0	0	0	...	0	0	0	m'_{NL}	$-jg'_L$	1
L	0	0	0	0	0	0	0	...	0	0	0	1	0	0

(a)



(b)