$$\text{EVALUATECIRCUIT}(G(V,E), k, \mathcal{L}, \mathbf{v}, t)$$
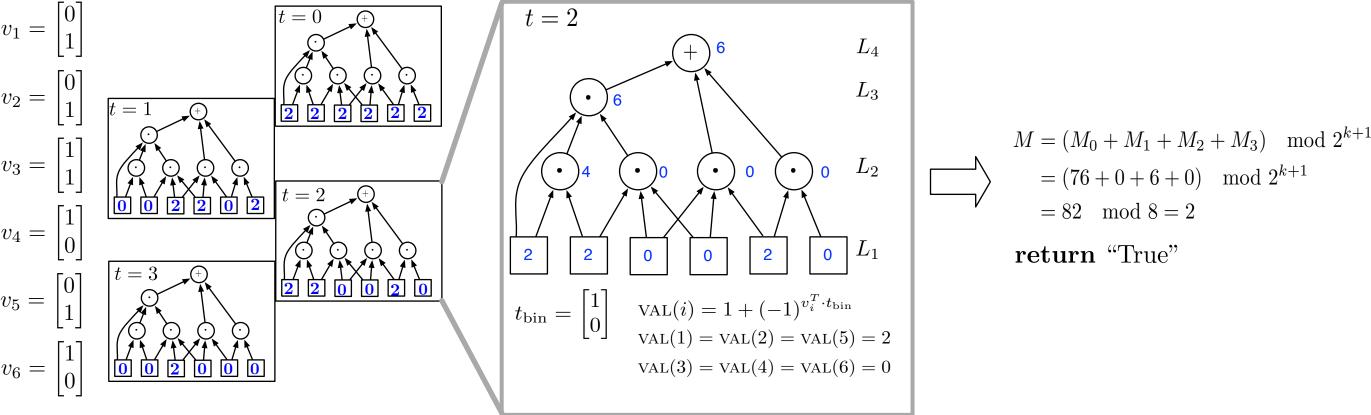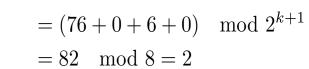

$v_1 = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$

$v_2 = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$

$v_3 = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$

$v_4 = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$

$v_5 = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$

$v_6 = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$

$t_{\text{bin}} = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$ $\text{VAL}(i) = 1 + (-1)^{v_i^T \cdot t_{\text{bin}}}$

$\text{VAL}(1) = \text{VAL}(2) = \text{VAL}(5) = 2$

$\text{VAL}(3) = \text{VAL}(4) = \text{VAL}(6) = 0$

$M = (M_0 + M_1 + M_2 + M_3) \mod 2^{k+1}$

$= (76 + 0 + 6 + 0) \mod 2^{k+1}$

$= 82 \mod 8 = 2$

return "True"