$$\hat{y}^{(1)} = \text{softmax} \begin{pmatrix} h^{(1)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(0)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(0)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(0)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(0)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(1)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(2)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(2)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(2)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_1 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_1 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_1 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_1 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_2 \\ \vdots & \vdots & \vdots \\ h^{(3)} & b_1 \\ \vdots & \vdots & \vdots \\ h^$$

(1, |V|)

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