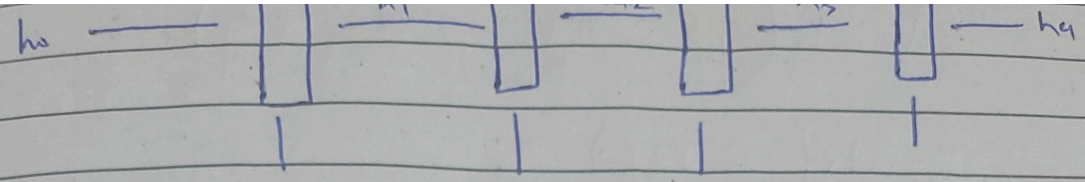

$$h_t = \tanh(W_1 h_{t-1} + W_2 x_t)$$

$$h_1 = \tanh(W_1 h_0 + W_2 x_1)$$

$$= \tanh(1 \times 0.75 + 2 \times 0.9)$$

$$= \tanh(2.55)$$

$$h_1 = 0.987$$

$$h_2 = \tanh(W_1 h_1 + W_2 x_2)$$

$$h_2 = \tanh(1 \times 0.987 + 2 \times 0.9)$$

$$= \tanh(2.787)$$

$$h_2 = 0.992$$

$$h_3 = \tanh(W_1 h_2 + W_2 X_3)$$

$$= \tanh(1 \times 0.992 + 2 \times 0.9)$$

$$= \tanh(2.792)$$

$$h_3 = 0.992$$ ✓

6

$$h_4 = \tanh(W_1 h_3 + W_2 X_4)$$

$$= \tanh(1 \times 0.992 + 2 \times 0.9)$$

$$= \tanh(2.792)$$

$$\boxed{h_4 = 0.992}$$ at last timestamp