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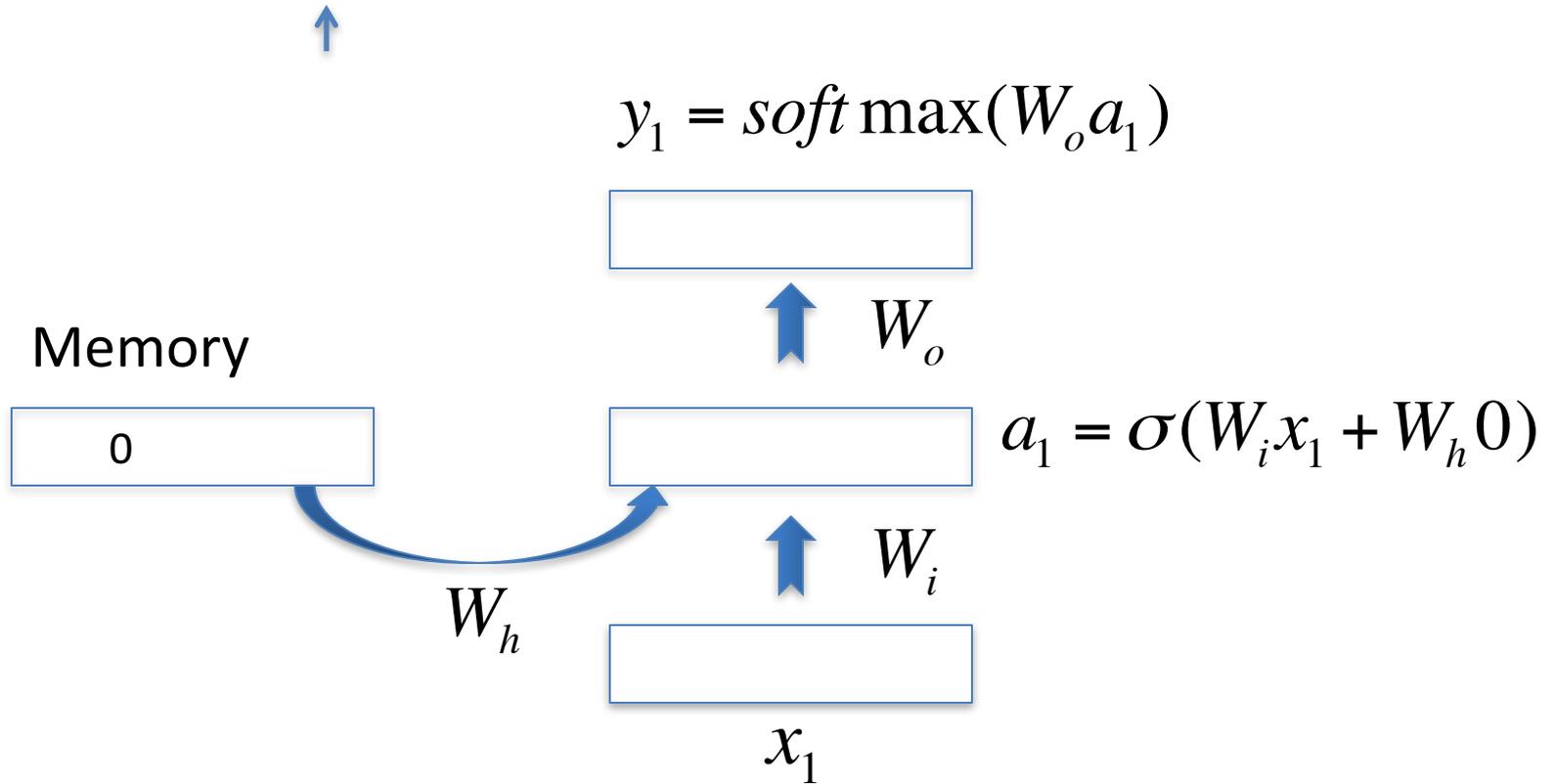
# Recurrent Neural Nets

## Forward Pass

**Thang Vu**

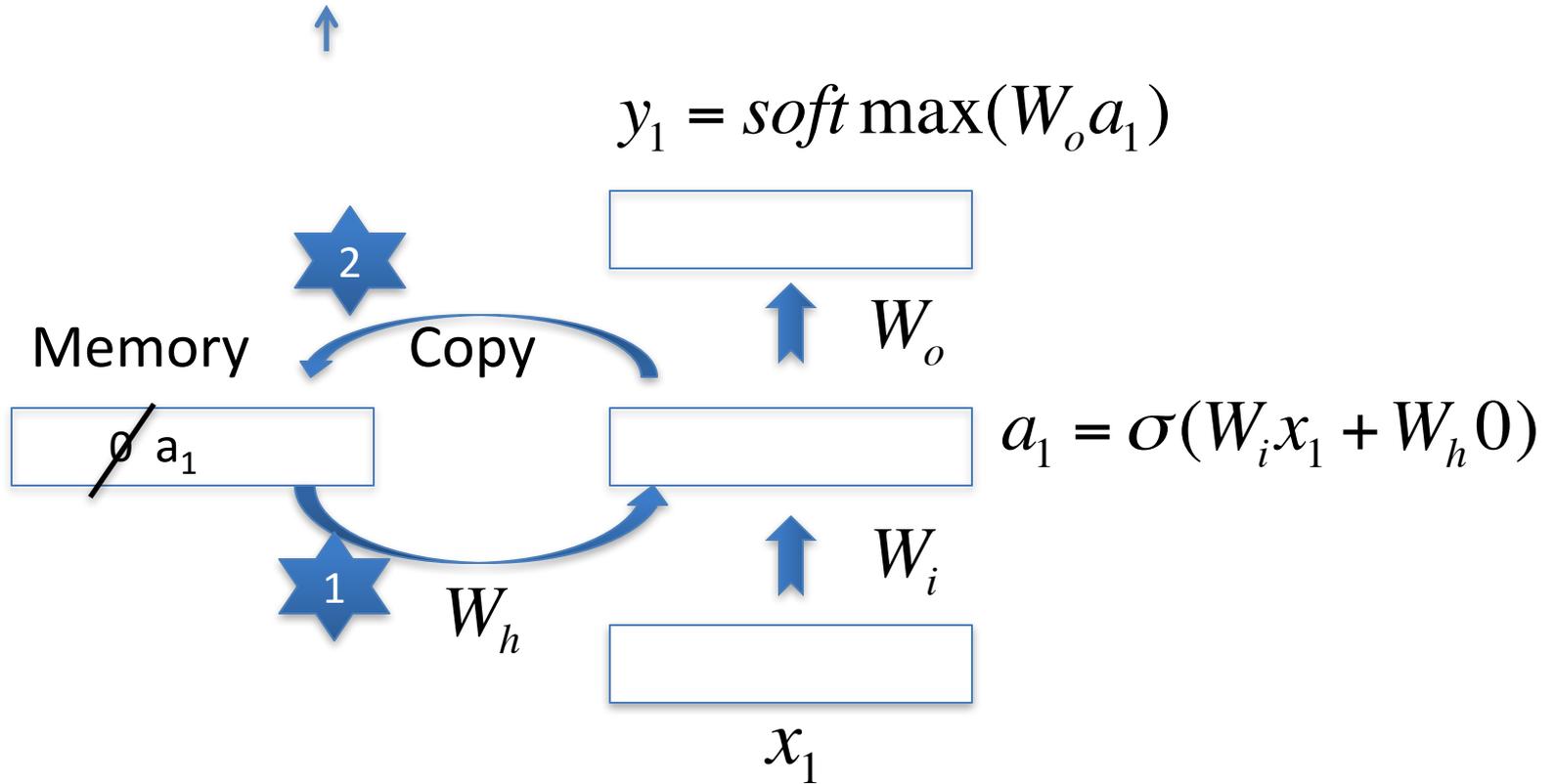
# RNN

- Input data:  $[x_1, x_2, x_3, \dots, x_n]$



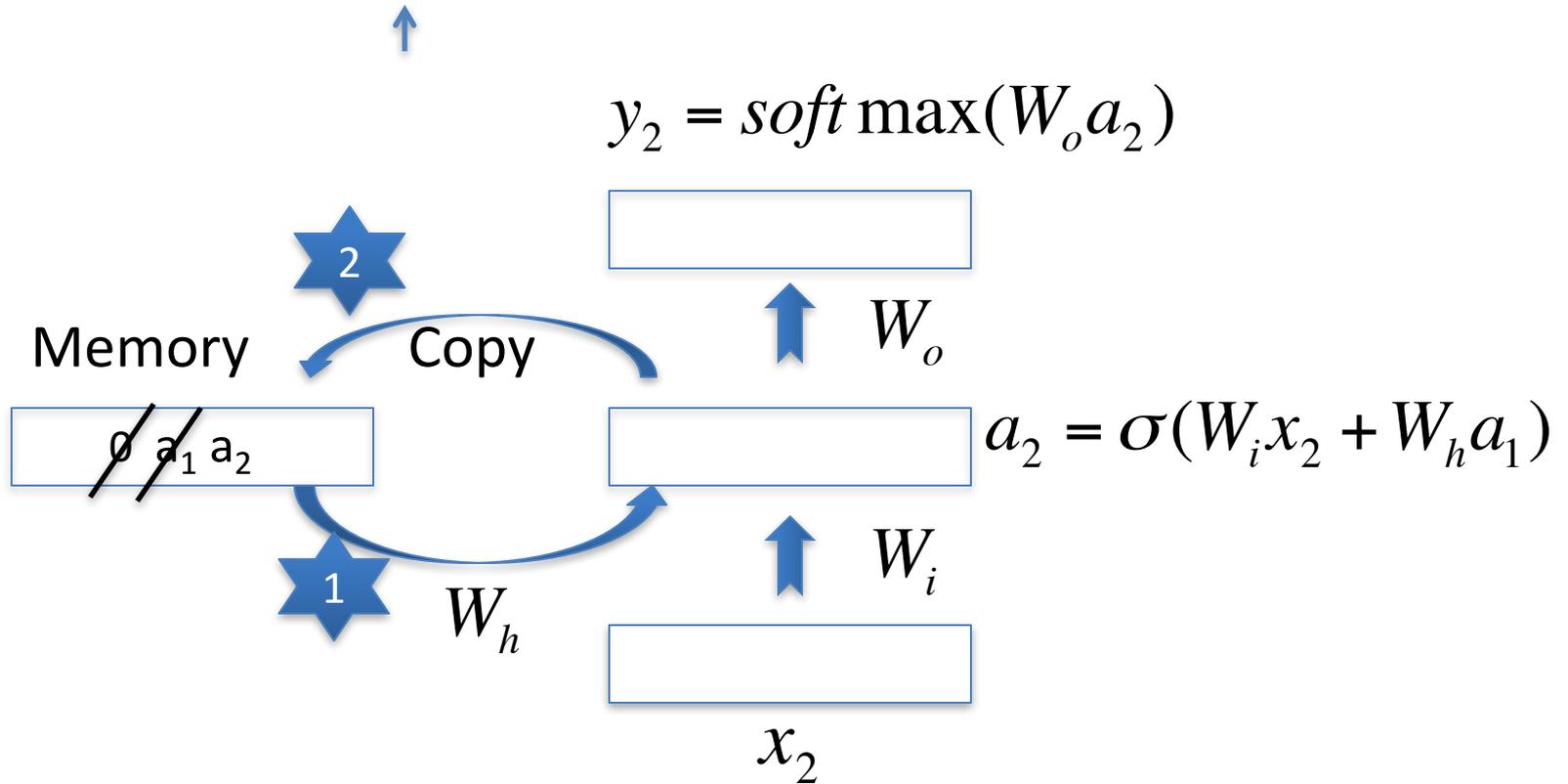
# RNN

- Input data:  $[x_1, x_2, x_3, \dots, x_n]$



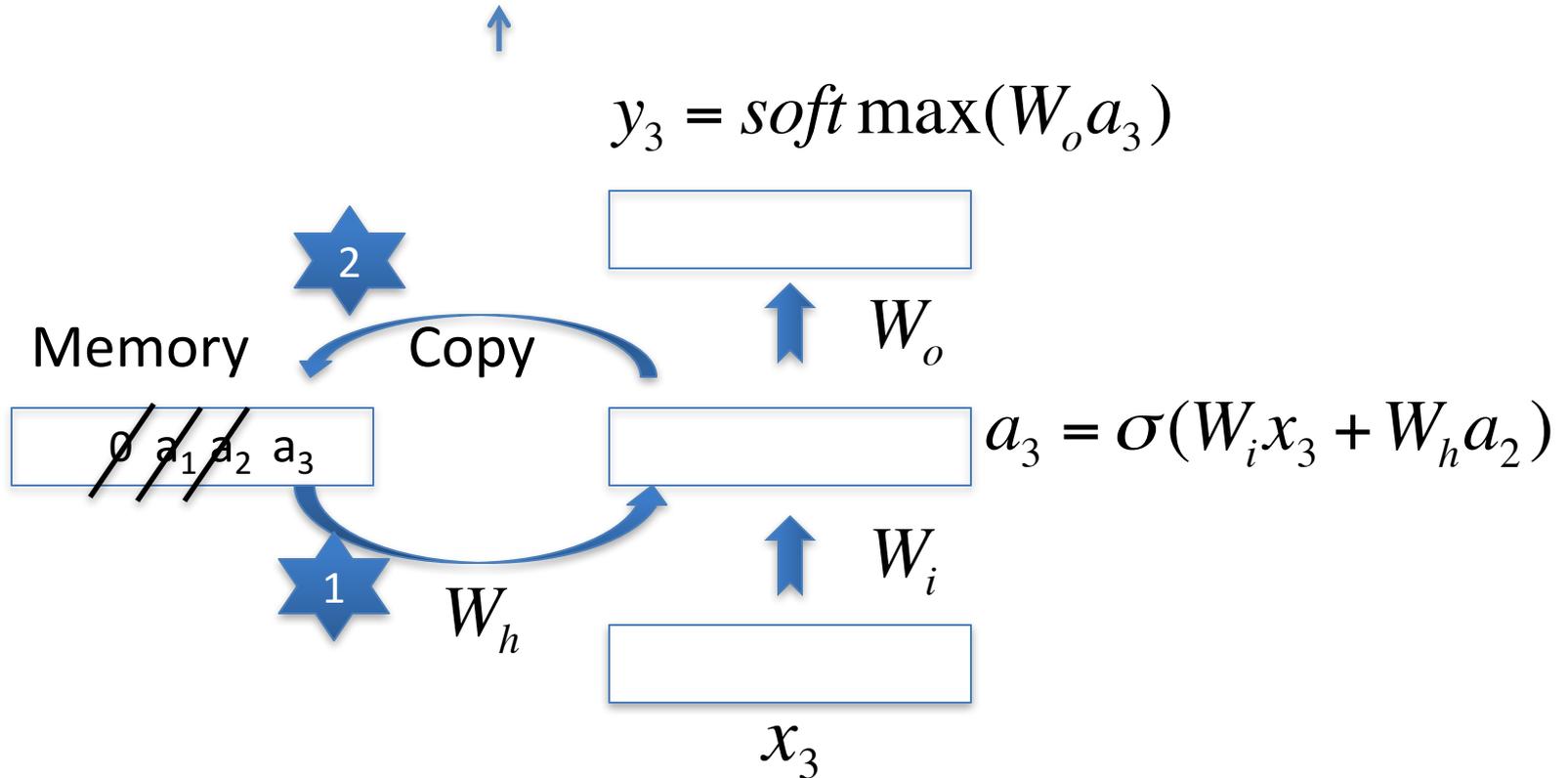
# RNN

- Input data:  $[x_1, x_2, x_3, \dots, x_n]$



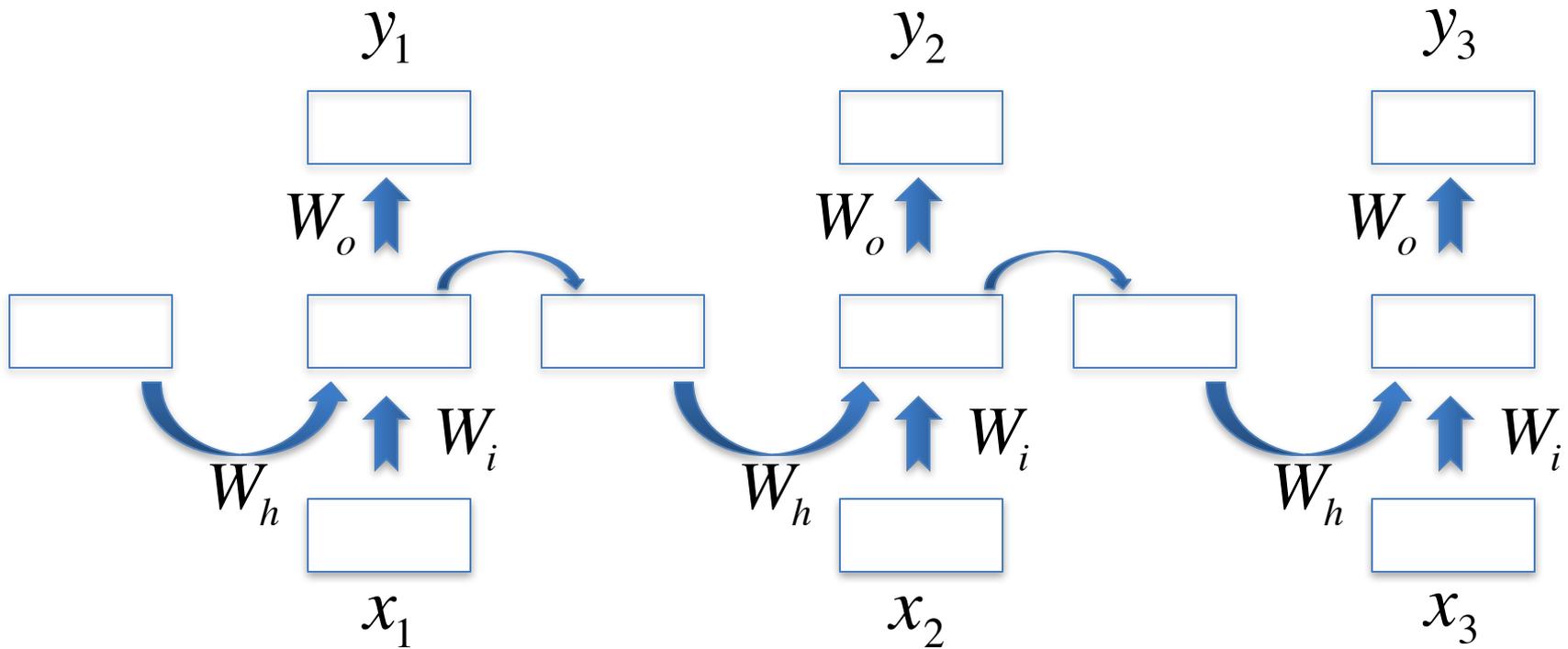
# RNN

- Input data:  $[x_1, x_2, x_3, \dots, x_n]$



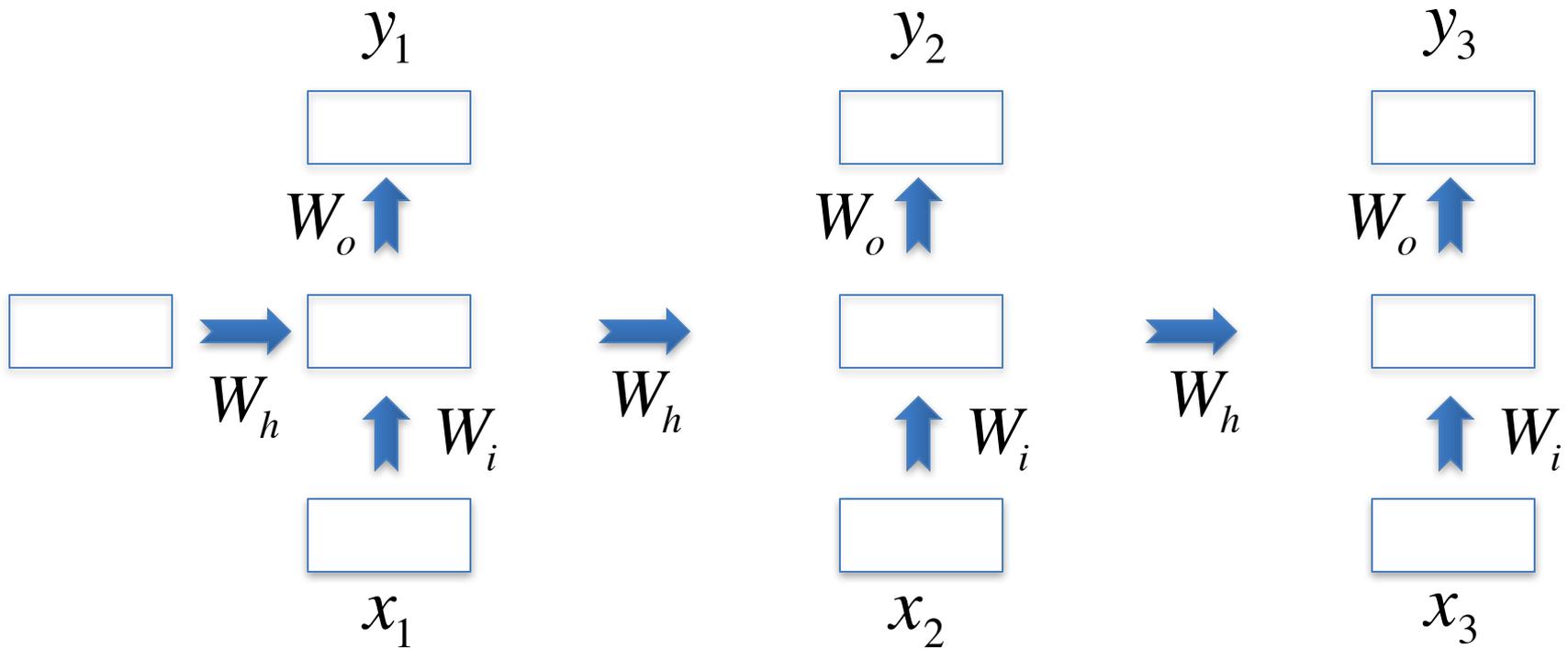
# RNN

- Input data:  $[x_1, x_2, x_3, \dots, x_n]$



# RNN

- Input data:  $[x_1, x_2, x_3, \dots, x_n]$



# Unfolding Computational Graphs

