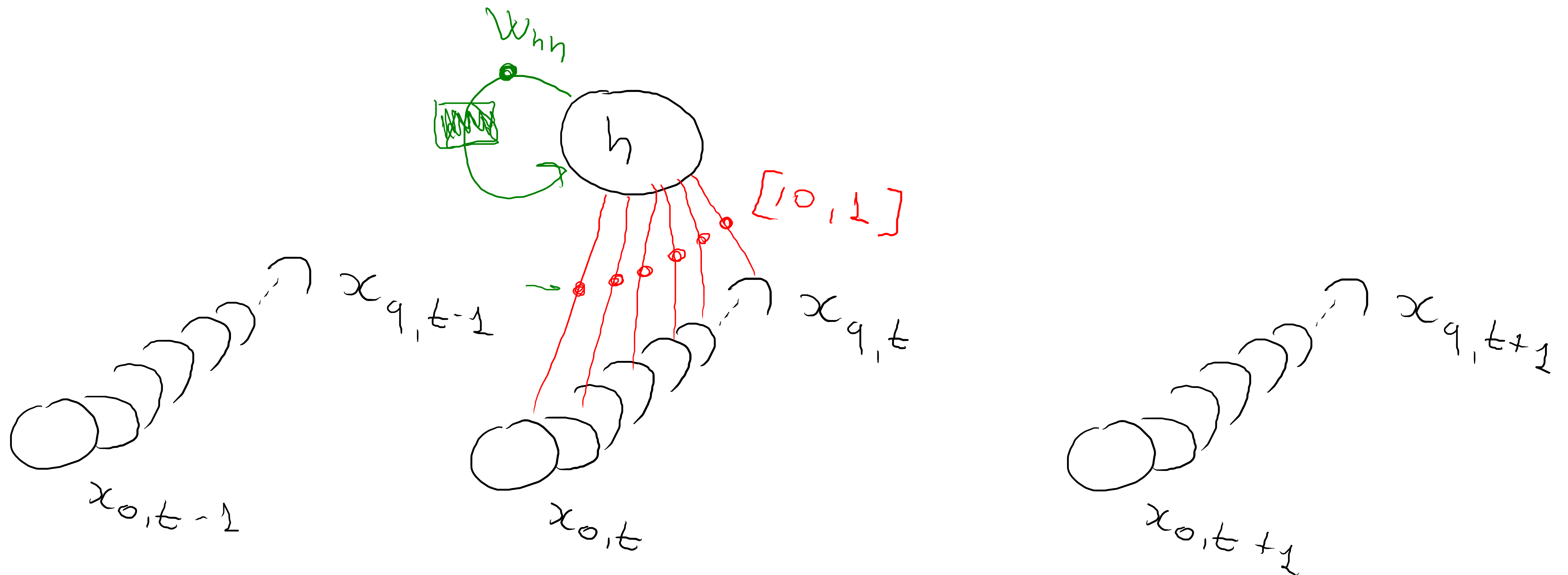


Case 1

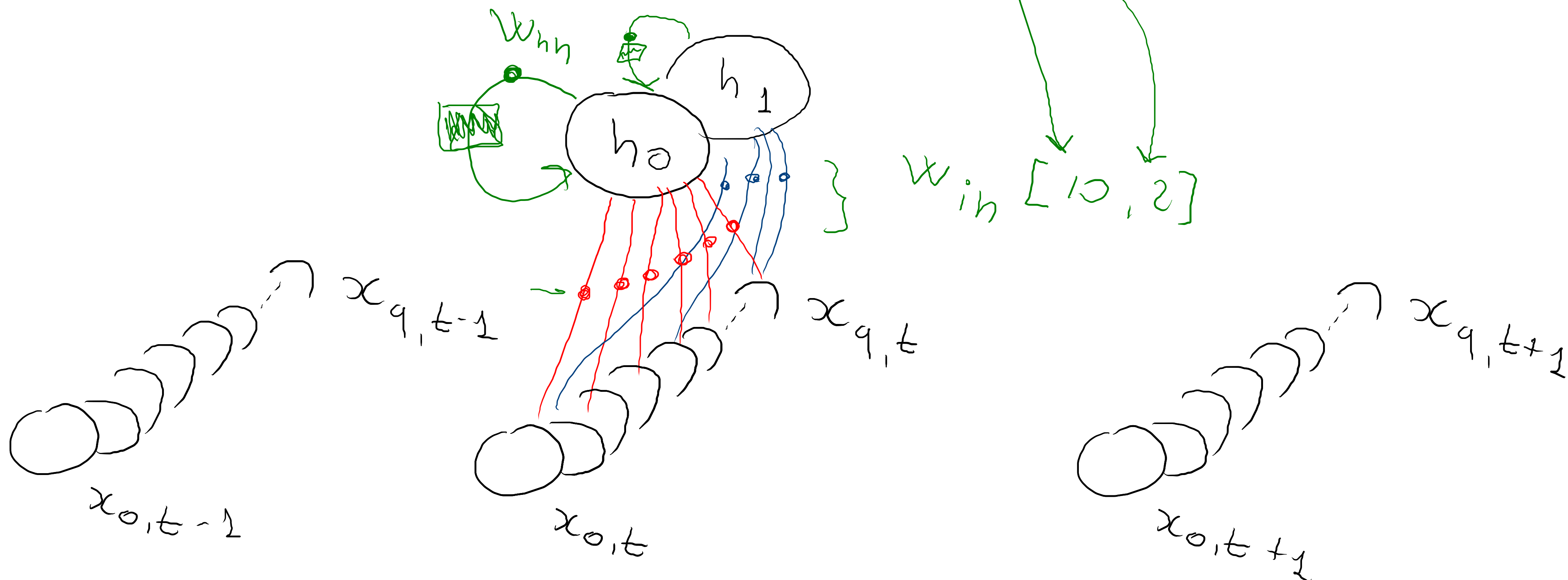
X size 10 \rightarrow 10 features!

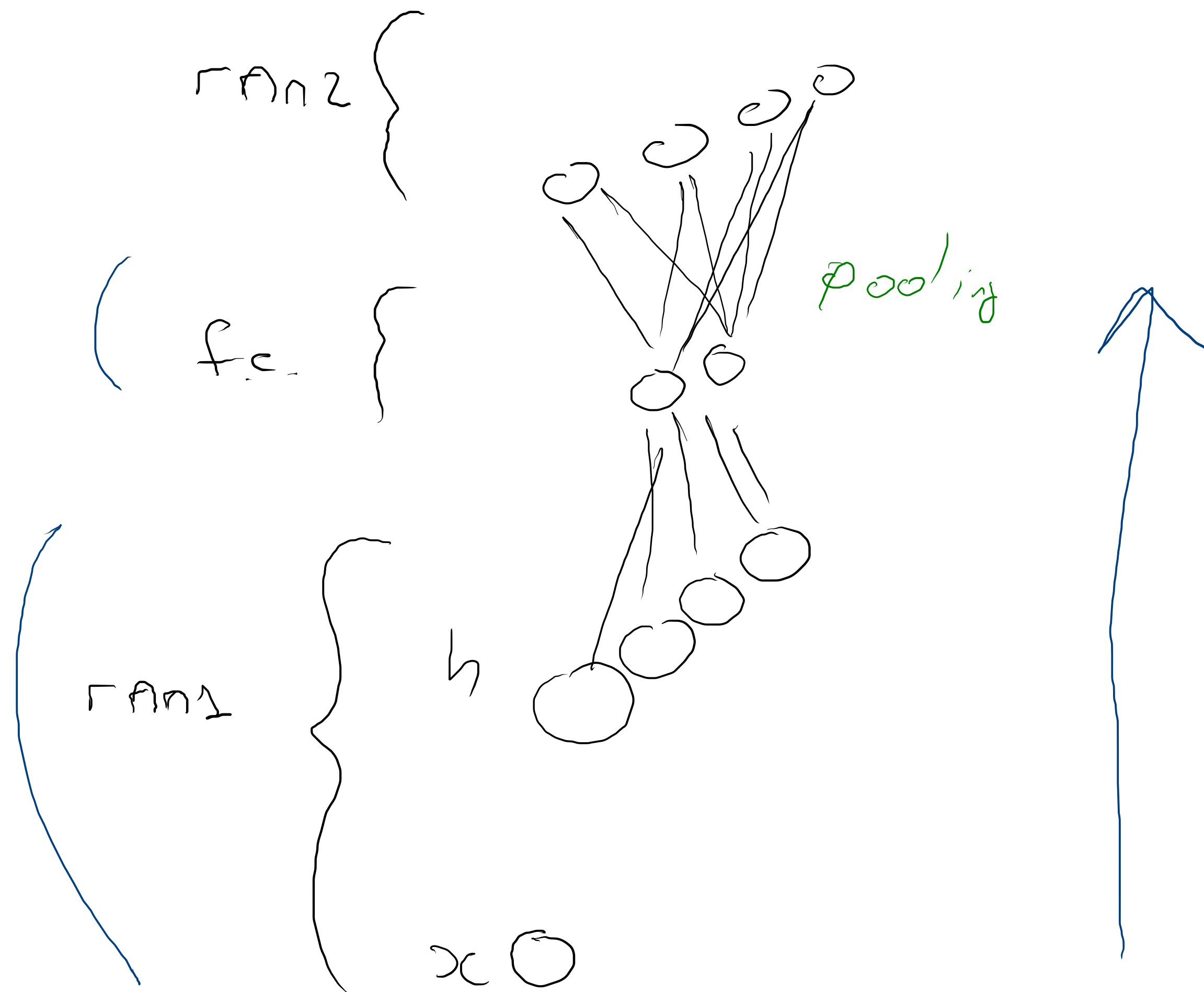
H size 1



Caso 2

x size 10
 h size 2
}





$ran1$
 fc
 $ran2$

$$h_t = \tanh(W_{ih}x_t + b_{ih} + W_{hh}h_{(t-1)} + b_{hh})$$

Handwritten annotations for the equation above:

- $0,74$ above $W_{ih}x_t$
- $-0,3$ above b_{ih}
- 0 above $h_{(t-1)}$
- $-0,4$ above b_{hh}
- $0,166$ below $W_{ih}x_t$
- $0,80$ below $W_{hh}h_{(t-1)}$

$$0,122 - 0,3 + 0 + (-0,4)$$

$$\tanh(-0,57) = -0,51$$

Stack de rnn + fc + rnn

rnn₂ (



$h_2 = 3$

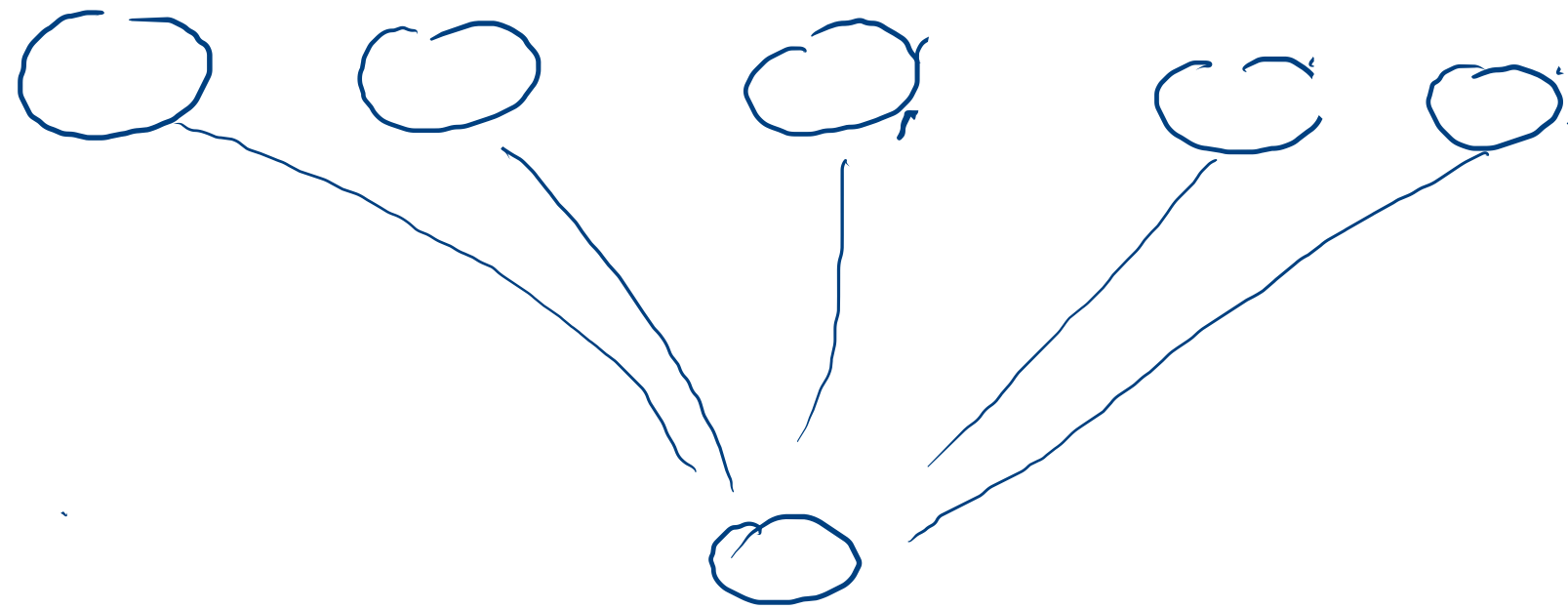


fc (

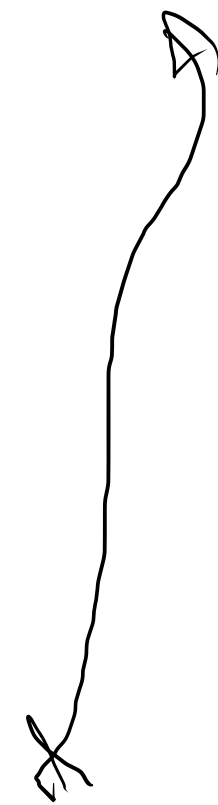


fc₂

rnn₁ (



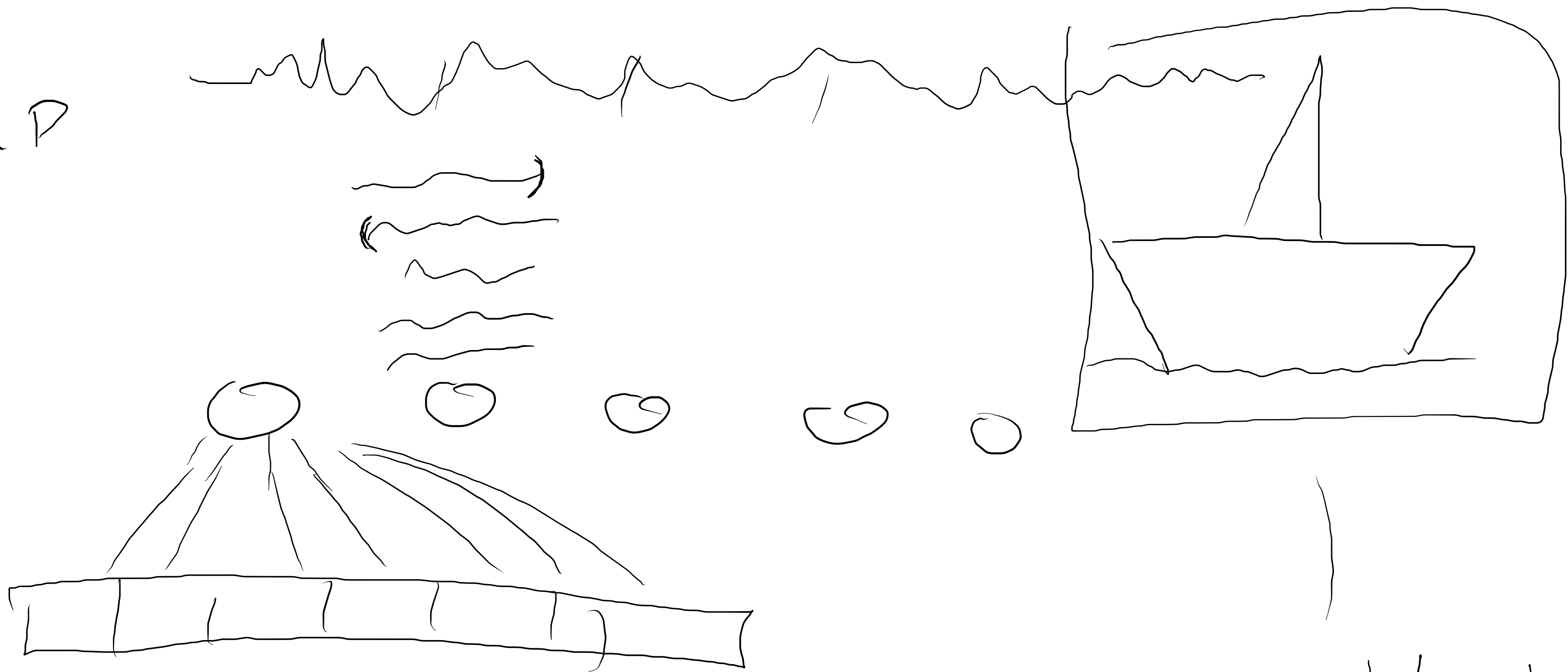
$h_1 = 5$



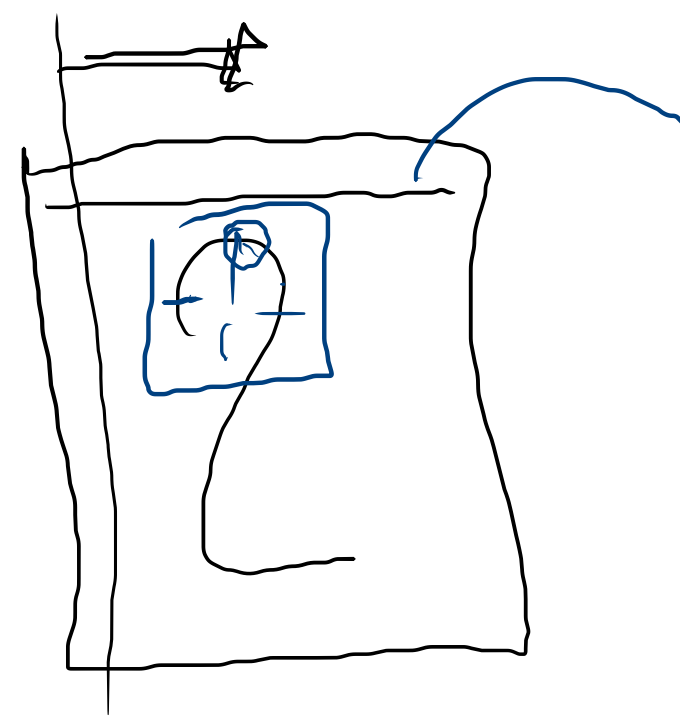
x_t

x_{t+1}

M L P

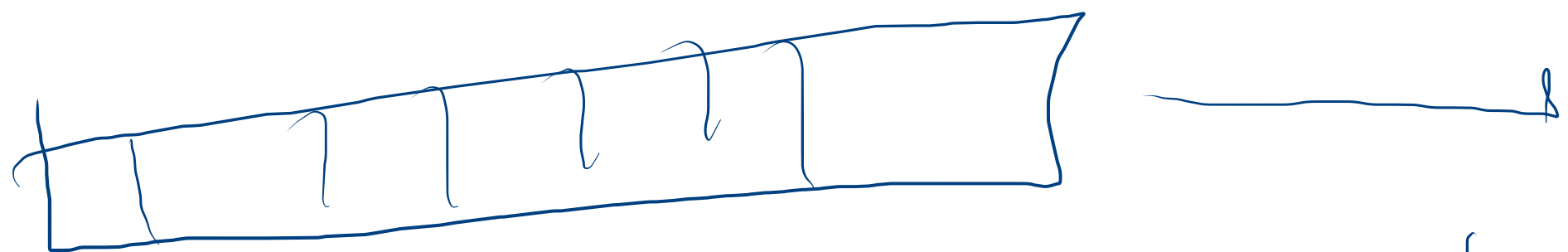
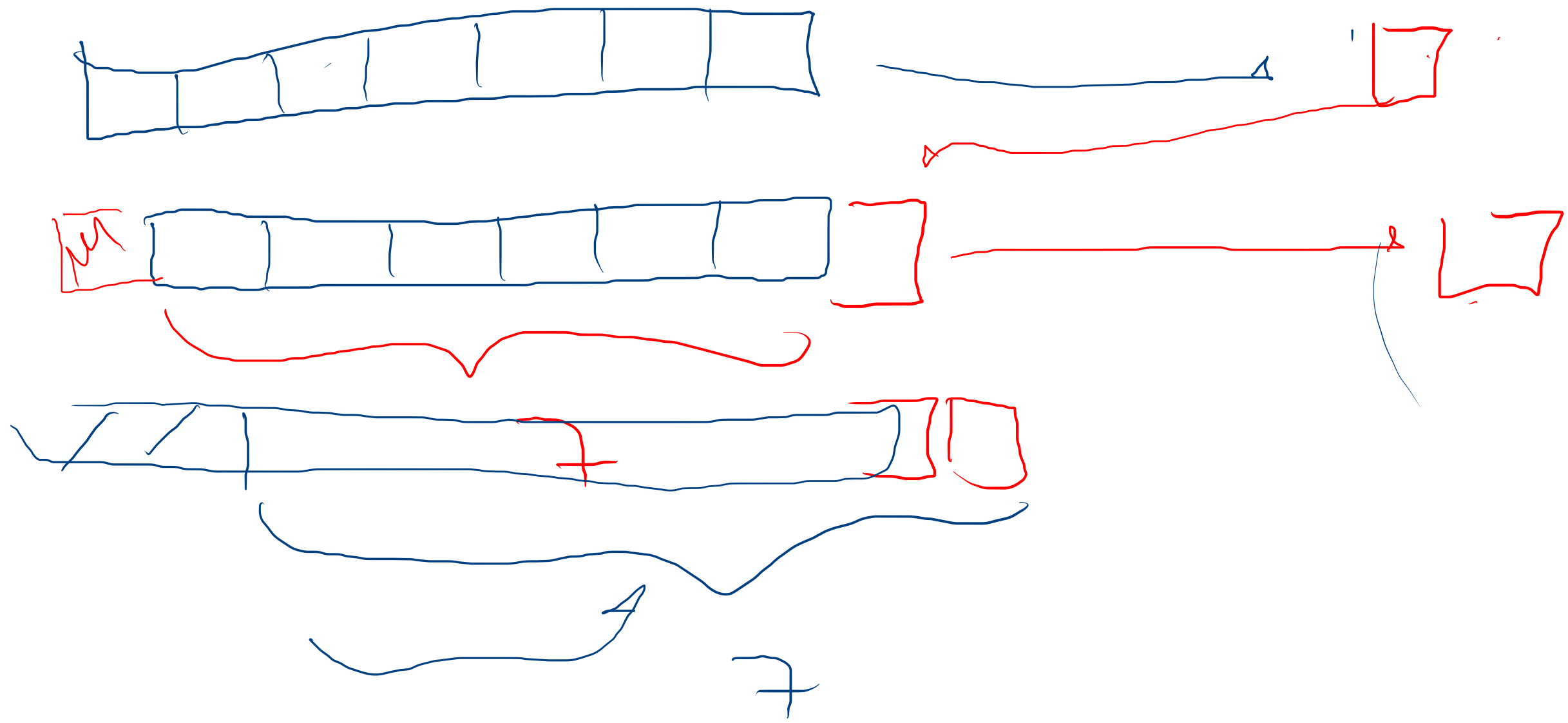


Label + bar

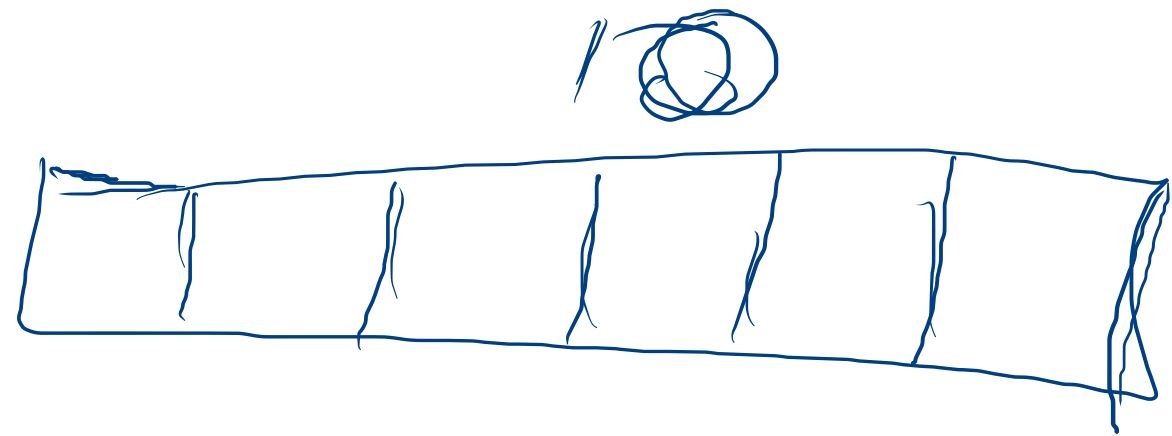


$[28 \times 28, 1]$
 $28, 28, 1$

$28, 28$



50



10