

$$\begin{array}{ccccccc}
 X & \xrightarrow{W_1} & H_1 & \xrightarrow{f} & O_1 & \xrightarrow{W_2} & H_2 \\
 [n \times 2] & & [n \times 2] & & [n \times 2] & & [n \times 2] \\
 & & & & & \xrightarrow{f} & O_2 \\
 & & & & & & [n \times 2] \\
 & & & & & \xrightarrow{W_3} & \hat{y} \\
 & & & & & & [n \times 1]
 \end{array}
 \longrightarrow L(y, \hat{y})$$