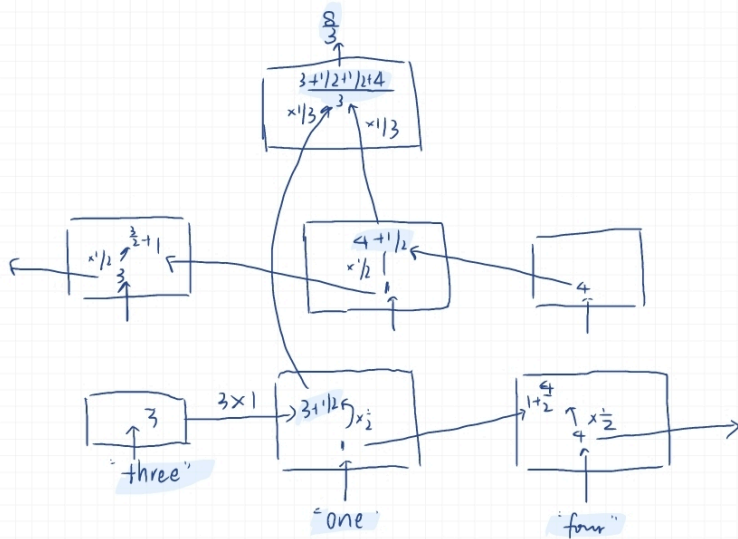


Bidirectional RNN

- Input are encoded as:
 - "five": $[1, 0, 0, 0, 0]$,
 - "four": $[0, 1, 0, 0, 0]$,
 - "one": $[0, 0, 1, 0, 0]$,
 - "three": $[0, 0, 0, 1, 0]$,
 - "two": $[0, 0, 0, 0, 1]$
- all the activation functions are $f(x) = x$
- weights are shown in the graph using green color
- for sequence that is given, take the first three vocabulary as an example



$$\text{output } f(x_i) = \frac{x_{i-1} + x_i + x_{i+1}}{3}$$

