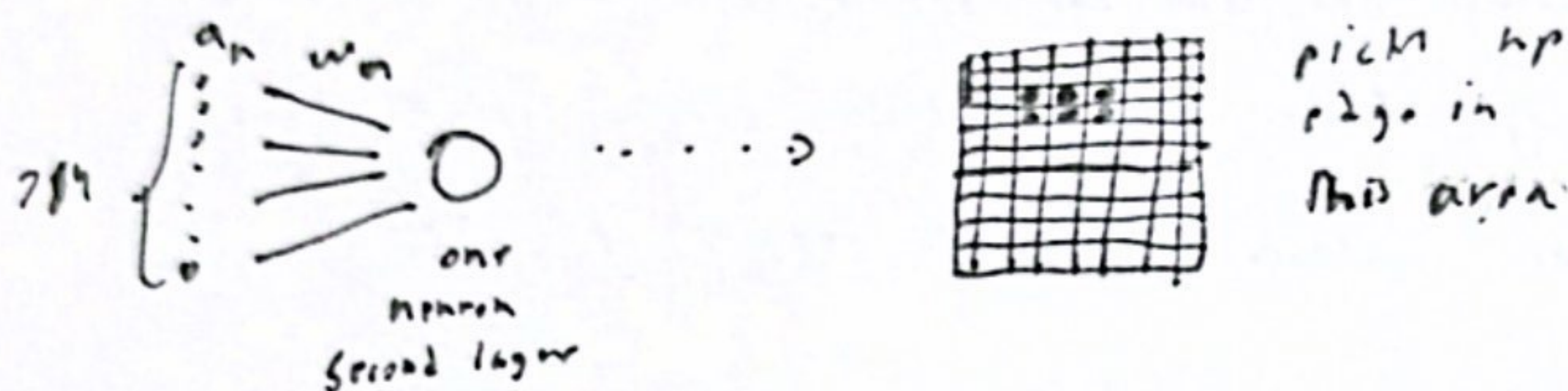


NN cont... (pg)

- in the last page we had patterns and edges but how do we detect edges?
- we took the NN

- Ex lets say we wanted one neuron in second layer to detect a specific edge in the image



- ? what parameters should there be so that we can dictate what input neurons should be associated with this one neuron is it given? what parameters should we have so that this one neuron lights up

- so we assign a weight to the connection between the input neuron and the one neuron in second layer
- then take all activation from first layer is the numbers (0-1) and compute a weighted sum with the weights we have

Ex: $w_1 a_1 + w_2 a_2 + w_3 a_3 + \dots + w_n a_n$

- now this sum dictates whether the one neuron is activated

