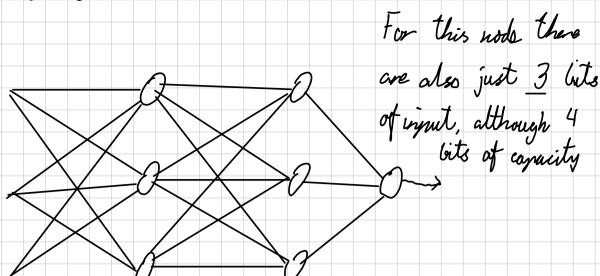
The memory equivalent capacity of a is:

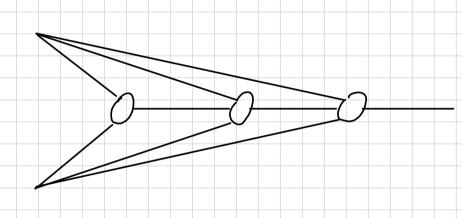


Each of these nodes can save 3+1 lits, that is $3\cdot 4$ lits

Each node in this part can also seve 3.4 but
there are really just 3 distinct
outputs with 3
distinct lite.

Total capacity is therefore: MEC=12+3+3=18

() Then we have this network:



· None of these nodes have their output restricted by the previous layer. We therefore got

MEC = 3 + 2(3 + 1) = 3 + 8 = 11 (its

c) The maximum amount of rows any network can "memorize" can be said to be infinity if f.ex. all labels are O, depending on the defention of "memorize".

However the maximum number of rows we can guarantee to menorize for binary classification are 18 for network a., and

d) MEC is the number of lits needed to make I linary descision per row.

For 4 classes, (og2(4) = 2 binary decisions have to be made per row instead, such that one could now guarantee to memorise half the amount of rows compared to binary classification.

That is:

a.) \[\frac{18}{2} \]

a.) $\begin{bmatrix} 18 \\ 2 \end{bmatrix} = 9 \text{ rows}$ b) $\begin{bmatrix} 11 \\ 2 \end{bmatrix} = 5 \text{ rows}$