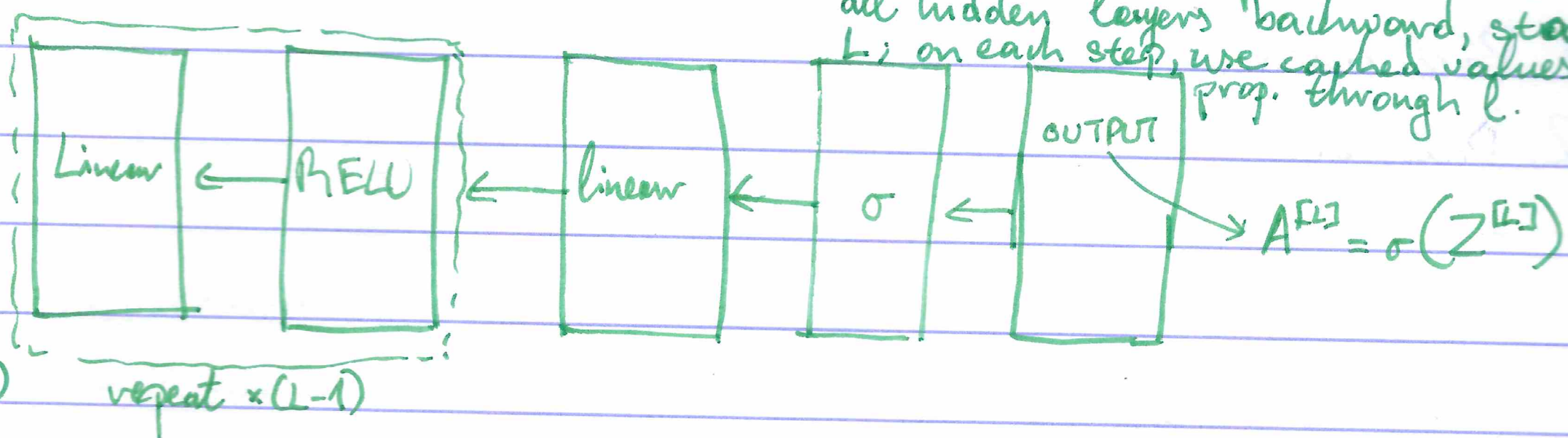


6.3. L-Model Backward

caches: list of
caches containing:
- every cache of
linear-activation
forward() w/ relu
caches [L]
for l in range(L-1)
- cache of
linear-act. for l
w/ sigmoid
caches [L-1])



Need to compute: $dA = \frac{\partial L}{\partial A^{[L]}}$

$$dA = -(\text{Cur.divide}(Y, A) - \text{up.divide}(1-Y, 1-A))$$

Use dA to keep going backward

- Feed dA into LINEAR \rightarrow SIGMOID backw. (which uses ca)
- Iter. through all other layers using LINEAR \rightarrow RE
- Store each dA, dW, db into grads (grads["dW" + str(l) + str(dA) + str(l+1)])

6.4. Update parameters

$$\begin{aligned} W^{[L]} &:= W^{[L]} - \alpha dW^{[L]} \\ b^{[L]} &:= b^{[L]} - \alpha db^{[L]} \end{aligned}$$

for l = 1, 2, ..., L

Compute updated params
store them in the param

Week 4 Programming Assignment #2: Deep NN-Application

- Deep NN classifying cats vs. non-cats
- Objectives

- Learn how to use all the previously written helper functions to build a model of any structure
- Experiment w/ different model architectures
- Recognise that it's always easier to build my helper functions before attempting to build a NN from scratch