```
1 from .layers import *
2
3
4 def affine_relu_forward(x, w, b):
5
     Convenience layer that performs an affine transform followed by a ReLU
6
7
8
     Inputs:
9
    - x: Input to the affine layer
10
    - w, b: Weights for the affine layer
11
12
    Returns a tuple of:
13
     - out: Output from the ReLU
14
     - cache: Object to give to the backward pass
15
16
     a, fc_cache = affine_forward(x, w, b)
     out, relu_cache = relu_forward(a)
17
18
     cache = (fc_cache, relu_cache)
19
     return out, cache
20
21
22 def affine_relu_backward(dout, cache):
23
     Backward pass for the affine-relu convenience layer
24
25
26
     fc_cache, relu_cache = cache
27
     da = relu_backward(dout, relu_cache)
     dx, dw, db = affine_backward(da, fc_cache)
28
29
     return dx, dw, db
30
```

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