

Module 1.0 Quiz



Last class we show that we could register parameters with modules using :

```
self.p1 = Parameter(0)
```

Another way to add a parameter to a module is with:

```
self.add_parameter("p1", 0)
```

Consider the following code modules.

```
class Network(Module):
    def __init__(self, hidden):
        super().__init__()
        # Submodules
        self.layer1 = Linear(2, hidden)
        self.layer2 = Linear(hidden, hidden)
        self.layer3 = Linear(hidden, 1)

class Linear(Module):
    def __init__(self, in_size, out_size):
        super().__init__()
        for i in range(in_size):
            for j in range(out_size):
                self.add_parameter(
                    f"weight_{i}_{j}", 0
                )

            for j in range(out_size):
                self.add_parameter(f"bias_{j}", 0)

model = Network(10)
print(len(model.named_parameters()))
```

What does this code print out? (i.e. how many parameters does this model have).

What does the code print out?