

See also the [\[Writing-tests-in-PyTorch-1.8\]](#) page for an introduction to the terms used here

Here are some tips for when you want to write tests using OpInfos. The basic layout is something like (without PEP8 vertical spacing and imports). Don't forget to instantiate the test!!!

```
class TestAdd(TestCase):
    @ops([OpInfo1, OpInfo2])
    def test_ops(self, device, dtype, op):
        for sample in op.sample_inputs(device, dtype):
            tensors = sample.input
            output = <some func>(*tensors)
            reference = op.ref(*tensors)
            assert_allclose(output, reference, atol=self.precision,
                             rtol=self.precision)

instantiate_device_type_tests(TestAdd, globals())
```

- **How many tests will this run?**
- **The test signature has `device`, `dtype` and `op`, where do the rest of the parameters come from?**
- **How do I write a `sample\_inputs` method to generate tensors to test with?**
- **A test failed. How do I reproduce it?**
- **Isn't it bad form to have a loop of values inside the test?**