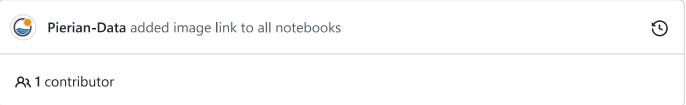
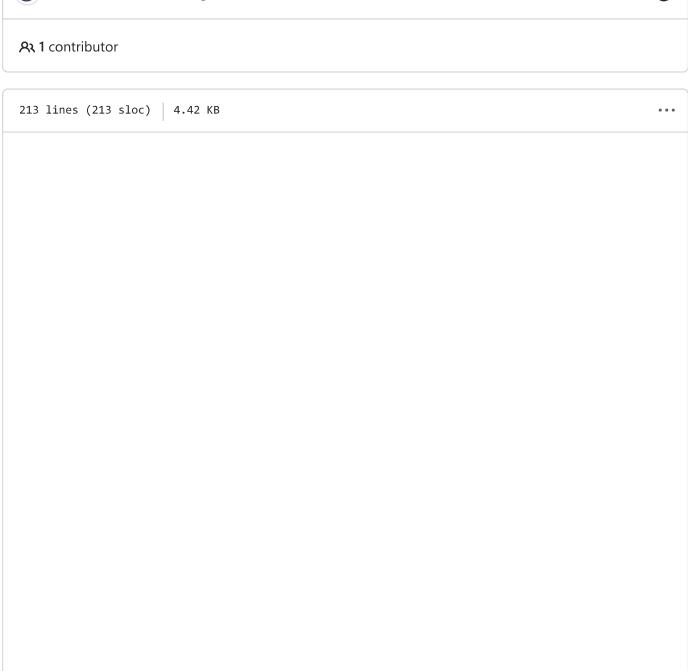


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Chained Comparison Operators

An interesting feature of Python is the ability to chain multiple comparisons to perform a more complex test. You can use these chained comparisons as shorthand for larger Boolean Expressions.

In this lecture we will learn how to chain comparison operators and we will also introduce two other important statements in Python: and and or.

Let's look at a few examples of using chains:

Out[1]:

The above statement checks if 1 was less than 2 and if 2 was less than 3. We could have written this using an **and** statement in Python:

```
In [2]:
         1<2 and 2<3
        True
Out[2]:
```

The **and** is used to make sure two checks have to be true in order for the total check to be true. Let's see another example:

The above checks if 3 is larger than both of the other numbers, so you could use and to rewrite it

```
In [4]:
          1<3 and 3>2
         True
Out[4]:
         It's important to note that Python is checking
         both instances of the comparisons. We can also
         use or to write comparisons in Python. For
         example:
In [5]:
          1==2 or 2<3
Out[5]:
```