

Tests

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challenge

- ▶ We will add a code that tests our code
- ▶ Note: There are special libraries for this purpose

```
def factorial(number):
    """Returns the factorial result of a number.
    number - is assumed to be a non-negative number of type int."""
    if number == 0:
        return 1
    else:
        return number * factorial(number-1)

assert factorial(0) == 1
assert factorial(1) == 1
assert factorial(5) == 120
assert factorial(6) == 120

>>>
Traceback (most recent call last):
  File "C:/Users/Owner/Documents/Python/112/112/112/tests_example.py", line 12, in <module>
    assert factorial(6) == 120
AssertionError
```

Fix it!

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```
>>> def factorial(number):
    """Returns the factorial result of a number.
    number - is assumed to be a non-negative number of type int."""
    if number == 0:
        return 1
    else:
        return number * factorial(number-1)

>>> factorial(5)
120
>>> factorial(4)
24
>>> factorial(0)
1
>>> factorial(1)
1
```

So, from now on...

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- ▶ Every exercise – includes tests
- ▶ Every function – includes tests

**DON'T WORRY,
BE HAPPY!**

What did we gain here?

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- ▶ Peace of mind ☺
- ▶ If we change something – we can be sure the code still works as expected



Good luck ☺

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