

Python assertIn()



website running.

Summary: in this tutorial, you'll learn how to use the Python assertIn() method to test if a member is in a container.

Introduction to the Python assertIn() method

The assertIn() is a method of the TestCase class of the unittest

(https://www.pythontutorial.net/python-unit-testing/python-unittest/) module. The assertIn() method tests if a member is in a container:

```
assertIn(member, container, msg=None)
```

If the member is in the container, the test will pass. Otherwise, it'll fail. The msg is optional. It'll be displayed in the test result when the test fails.

Internally, the assertIn() method uses the in operator to check:

member in container

Python assertIn() method examples

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The following example uses the assertIn() method to test if a number is in a list

(https://www.pythontutorial.net/python-basics/python-list/) and a string is in another string:

```
import unittest

class TestIn(unittest.TestCase):
    def test_in_list(self):
        self.assertIn(1, [1, 2, 3])

    def test_in_string(self):
        self.assertIn('python', 'python tutorial')
```

Run the test:

```
python -m unittest -v
```

Output:

```
test_in_list (test_in.TestIn) ... ok

test_in_string (test_in.TestIn) ... ok

Ran 2 tests in 0.001s

OK
```

Python assertNotIn() method

The assertNotIn() method is the opposite of the assertIn() method. The assertNotIn() method tests if a member is not in a container:

```
assertNotIn(member, container, msg=None)
```

For example:

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```
import unittest

class TestNotIn(unittest.TestCase):
    def test_not_in_list(self):
        self.assertNotIn(0, [1, 2, 3])

    def test_not_in_string(self):
        self.assertNotIn('java', 'python tutorial')
```

Run the test:

```
python -m unittest -v
```

Output:

Summary

- Use the assertIn() method to test if a member is in a container.
- Use the assertNotIn() method to test if a member is not in a container.