

# Pytest

Faza red

```
testdata3 = [
    ([5, 1, 4, 2, 6, 3], [1, 2, 3, 4, 5, 6]),
    ([9, 4, 1, 4, 2, 1, 3], [1, 1, 2, 3, 4, 4, 9])
]

@pytest.mark.parametrize('lst, sorted', testdata3)
def test_bubble_sort(lst, sorted):
    assert bubble_sort(lst) == sorted
```

test\_app.py::test\_bubble\_sort[lst0-sorted0] FAILED  
test\_app.py:40 (test\_bubble\_sort[lst0-sorted0])  
lst = [5, 1, 4, 2, 6, 3], sorted = [1, 2, 3, 4, 5, 6]

```
@pytest.mark.parametrize('lst, sorted', testdata3)
def test_bubble_sort(lst, sorted):
>     assert bubble_sort(lst) == sorted
E     NameError: name 'bubble_sort' is not defined

test_app.py:43: NameError
```

test\_app.py::test\_bubble\_sort[lst1-sorted1] FAILED  
test\_app.py:40 (test\_bubble\_sort[lst1-sorted1])  
lst = [9, 4, 1, 4, 2, 1, ...], sorted = [1, 1, 2, 3, 4, 4, ...]

```
@pytest.mark.parametrize('lst, sorted', testdata3)
def test_bubble_sort(lst, sorted):
>     assert bubble_sort(lst) == sorted
E     NameError: name 'bubble_sort' is not defined

test_app.py:43: NameError
```

Faza green

```
def bubble_sort(lst: List[int]):  
    l = len(lst)  
    for i in range(l):  
        change = False  
        for j in range(l - i - 1):  
            if lst[j] > lst[j + 1]:  
                lst[j], lst[j + 1] = lst[j + 1], lst[j]  
                change = True  
        if not change:  
            return lst  
    return lst
```

```
test_app.py::test_bubble_sort[lst0-sorted0] PASSED  
test_app.py::test_bubble_sort[lst1-sorted1] PASSED
```