

Lösung 5 - Unit Tests mit Exceptions

[grade_list_test.py](#)

```
import pytest
from grade_list import GradeList, Overflow

@pytest.fixture
def testee() -> GradeList:
    return GradeList()

def test_max_grade_count(testee):
    assert testee.get_max_grade_count() == 5

def test_list_is_empty(testee):
    assert testee.get_current_grade_count() == 0

def test_list_is_not_empty(testee):
    testee.add_grade(5.0)
    assert testee.get_current_grade_count() == 1

def test_list_is_full(testee):
    for i in range(testee.get_max_grade_count()):
        testee.add_grade(5.0)
    with pytest.raises(Overflow):
        testee.add_grade(5.0)
    assert testee.get_current_grade_count() == 5

def test_add_valid(testee):
    for i in range(testee.get_max_grade_count()):
        testee.add_grade(5.0)

def test_add_invalid(testee):
    for i in range(testee.get_max_grade_count()):
        testee.add_grade(5.0)
    pytest.raises(Overflow, testee.add_grade, 5.0)

def test_get_notenwert_1(testee):
    pytest.raises(IndexError, testee.get_grade, -1)

def test_get_notenwert_2(testee):
```

```
for i in range(testee.get_max_grade_count()):
    testee.add_grade(5.0)
assert testee.get_grade(0) == 5.0
assert testee.get_grade(4) == 5.0

def test_get_notenwert_3(testee):
    for i in range(testee.get_max_grade_count()):
        testee.add_grade(5.0)
    pytest.raises(IndexError, testee.get_grade, 5)
```

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