


```

b3 = {}
"""
    Пояснение к запросу Б3:
    Вместо окончания "ов" в фамилии сотрудников,
    я взял окончание "В" в имени группы
"""
for g in groups:
    if 'В' in g.name:
        course_groups = list(filter(lambda i: i[0] == g.name,
many_to_many))
        course_groups_names = [x for _, x in course_groups]
        b3[g.name] = course_groups_names
return b3

```

TDD_test.py

```

import unittest
from rk2 import Group, Course, GroupCourse, query_b1, query_b2, query_b3

class TestQueries(unittest.TestCase):
    def setUp(self):
        # Студенческие группы
        self.groups = [
            Group(1, 'IU1-12A', 26),
            Group(2, 'IU1-11B', 28),
            Group(3, 'IU3-21C', 20),
            Group(4, 'IU4-42D', 24),
            Group(5, 'IU5-44B', 19),
        ]
        # Учебные курсы
        self.courses = [
            Course(1, 'First'),
            Course(2, 'Second'),
            Course(3, 'Third'),
            Course(4, 'Fourth'),
        ]
        # Студенческая группа - Учебный курс
        self.groups_courses = [
            GroupCourse(1, 1),
            GroupCourse(1, 2),
            GroupCourse(2, 3),
            GroupCourse(4, 4),
            GroupCourse(4, 5),
            GroupCourse(3, 5),
        ]

    def test_query_b1(self):
        result = query_b1(self.groups, self.courses)
        self.assertEqual(len(result), 5)

    def test_query_b2(self):
        result = query_b2(self.groups, self.courses)
        self.assertEqual(len(result), 4)

    def test_query_b3(self):
        result = query_b3(self.groups, self.courses, self.groups_courses)
        self.assertEqual(len(result), 2)

if __name__ == '__main__':
    unittest.main()

```

Результат выполнения:

```
===== test session starts  
=====
```

collecting ... collected 3 items

TDD_test.py::TestQueries::test_query_b1 PASSED	[33%]
TDD_test.py::TestQueries::test_query_b2 PASSED	[66%]
TDD_test.py::TestQueries::test_query_b3 PASSED	[100%]

```
===== 3 passed in 0.03s  
=====
```