Текст программы Main.py

```
from operator import itemgetter
     def init (self, id, model, capacity gb, computer id):
class Computer:
     def __init__(self, id, name, type, hard drive id, cost):
           self.type = type
class ComputerHardDrive:
           self.computer id = computer id
     HardDrive(1, 'Seagate 1TB', 1000, 1),
HardDrive(2, 'Western Digital 2TB', 2000, 2),
HardDrive(3, 'Samsung 500GB', 500, 2),
     Computer (1, 'Computer 1', 'Desktop', 1, 800), Computer (2, 'Laptop 1', 'Laptop', 2, 1200), Computer (3, 'Computer 2', 'Desktop', 3, 700),
computer_hard_drives = [
     ComputerHardDrive(1, 1),
ComputerHardDrive(2, 2),
ComputerHardDrive(3, 3),
     ComputerHardDrive(3, 2),
from operator import itemgetter
     res a1 = sorted(one to many, key=itemgetter(2))
```

```
if len(h comps) > 0:
            res a2 unsorted.append((h.model, h capacities sum))
    res a2 = sorted(res a2 unsorted, key=itemgetter(1), reverse=True)
    for c in computers:
            c drives = list(filter(lambda ch: ch.computer id == c.id,
computer hard drives))
            c drives models = [hard drive.model for hard drive in hard drives
    one to many = [(h.model, h.capacity gb, c.name)
        for c in computers for h in hard_drives
        if h.computer id == c.id]
        for ch in computer hard drives
        if c.id == ch.computer_id]
   many to many = [(h.model, h.capacity gb, comp name)
        for comp name, comp id, hd id in many to many temp
```

```
print(a3_solution(many_to_many))

if __name__ == '__main__':
    main()
```

Tests.py

```
HardDrive(1, 'Seagate 1TB', 1000, 1),
HardDrive(2, 'Western Digital 2TB', 2000, 2),
HardDrive(3, 'Samsung 500GB', 500, 2),
computers = [
    Computer (1, 'Computer 1', 'Desktop', 1, 800), Computer (2, 'Laptop 1', 'Laptop', 2, 1200), Computer (3, 'Computer 2', 'Desktop', 3, 700),
computer hard drives = [
    ComputerHardDrive(1, 1),
    ComputerHardDrive(2, 2),
    ComputerHardDrive(3, 3),
    ComputerHardDrive(3, 2),
    one to many = [(h.model, h.capacity gb, c.name)
                      for c in self.computers
                      if h.computer id == c.id]
    self.assertEqual(a1 solution(one to many),
    one to many = [(h.model, h.capacity gb, c.name)
                      for c in self.computers
                      if h.computer id == c.id]
    expected result = [('Western Digital 2TB', 2000), ('Seagate 1TB',
    self.assertCountEqual(actual result, expected result)
    if c.id == ch.computer id]
```

Резултаты работы

Ошибка:

Успех

```
Ran 3 tests in 0.005s

ОК

Фактический результат: {'Computer 1': ['Seagate 1TB'], 'Computer 2': ['Samsung 5006B', 'Western Digital 2TB']}

Ожидаемый результат: {'Computer 1': ['Seagate 1TB'], 'Computer 2': ['Samsung 5006B', 'Western Digital 2TB']}

Process finished with exit code 8
```