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Факультет «Радиотехнический» Кафедра «Системы обработки информации и управления»

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Текст программы

```
self.computers = []
    def add computer(self, computer):
        self.computers.append(computer)
        if not self.computers:
        total power = sum(computer.power for computer in self.computers)
        return total power / len(self.computers)
class Computer:
    def init (self, name, microprocessor, power):
        self.microprocessor.add computer(self)
        return f'{self.name} (Power: {self.power})'
            self.owners.append(owner)
            owner.add computer(self)
        self.computers = []
    def add computer(self, computer):
        if computer not in self.computers:
            self.computers.append(computer)
micro1 = Microprocessor("Intel Core i5")
micro2 = Microprocessor("AMD Ryzen 5")
micro3 = Microprocessor("Intel Core i7")
computer1 = Computer("Gaming PC", micro1, 400)
computer2 = Computer("Office PC", micro2, 200)
computer3 = Computer("Workstation", micro3, 600)
computer4 = Computer("Budget PC", micro1, 300)
owner1 = Owner("Alice")
owner3 = Owner("Anna")
computer1.add owner(owner1)
computer2.add owner(owner2)
```

```
computer3.add owner(owner1)
computer4.add owner(owner3)
intel microprocessors = [micro for micro in [micro1, micro2, micro3] if
for micro in intel microprocessors:
   for computer in micro.computers:
       print(f' - {computer}')
print('----')
microprocessors = [micro1, micro2, micro3]
average powers = [(micro, micro.average power()) for micro in
microprocessors]
average powers.sort(key=lambda x: x[1])
print("Микропроцессоры с их средней мощностью")
for micro, avg power in average powers:
   print(f'Mикропроцессор: {micro}, Средняя мощность: {avg power:.2f}')
print('------)
print("компьютеры с владельцами на 'A'")
for owner in [owner1, owner3]:
   for computer in owner.computers:
       print(f'Owner: {owner}, Computer: {computer}')
```

## Результат выполнения программы