

Homework 10 Test Cases

CS 1301 - Intro to Computing - Fall 2024

Important

This document outlines all of the test cases that you will see on Gradescope once you submit HW10. Since the test cases for this homework are more complicated than the usual test cases that are used in other homeworks, please refer to this document for detailed explanations of the inputs and outputs for all test cases.

Each test case on Gradescope is assigned a reference ID. Please use the reference ID to determine which test case to reference on this document. HW10 contains no hidden test cases.

Prerequisites

Due to the heavy interactions between all classes in HW10, many of the test cases will create multiple objects and call multiple methods. In order to ensure that a test case is only testing one specific concept, we have introduced prerequisites for most of the test cases in HW10. The autograder will test all test cases in increasing Reference ID order, but a test case will only run if all of its respective prerequisite test cases have been passed. You may refer to this document to determine what the prerequisites are for all test cases.

You may only receive credit for a test case if all of its prerequisites have also been passed.

Failed Test Cases

If the autograder deems that the objects created from your homework submission are incorrect, the autograder will attempt to tell you the specific part of the object that is incorrect. For example, this may be formatted as:

Owner:

Attribute name - ❌ Your Value: "Lauri"; Correct Value: "Rachel"

Attribute budget - ✅ 150

Attribute pets - ✅ []

which means that your `owner.name` is incorrect.

Test Cases

Test 00

Name: Initializing a Pet Object

Points: 1

Prerequisites: None

Objects Created:

```
Gracie = Pet("Gracie", "Dog", 15, 175, 6, 100)
```

Methods Called: None

Tests:

- Attributes of `Gracie` : name = "Gracie", species = "Dog", weight = 15, fee = 175, age = 6, happiness = 100, adopted = False, isVaccinated = False, owner = None

Test 01

Name: Initializing a Pet Object

Points: 1

Prerequisites: None

Objects Created:

```
Tap = Pet("Tap", "Turtle", 1, 55)
```

Methods Called: None

Tests:

- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None

Test 02

Name: Initializing a Pet Object

Points: 1

Prerequisites: None

Objects Created:

```
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
```

Methods Called: None

Tests:

- Attributes of `Callie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None

Test 03

Name: Initializing a Pet Object

Points: 1

Prerequisites: None

Objects Created:

```
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called: None

Tests:

- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None

Test 04

Name: Initializing a Pet Object

Points: 1

Prerequisites: None

Objects Created:

```
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
```

Methods Called: None

Tests:

- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = False, isVaccinated = False, owner = None

Test 05

Name: Initializing a Pet Object

Points: 1

Prerequisites: None

Objects Created:

```
Duck = Pet("Duck", "Cat", 9, 200)
```

Methods Called: None

Tests:

- Attributes of `Duck` : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None

Test 06

Name: Update Happiness of Pet

Points: 1

Prerequisites: Test 00

Objects Created:

```
Gracie = Pet("Gracie", "Dog", 15, 175, 6, 100)
```

Methods Called:

```
print(Gracie.update_happiness(30))
```

Tests:

- Attributes of `Gracie` : name = "Gracie", species = "Dog", weight = 15, fee = 175, age = 6, happiness = 100, adopted = False, isVaccinated = False, owner = None

Output:

Gracie: happiness = 100

Test 07

Name: Feed Pet

Points: 3

Prerequisites: Test 02

Objects Created:

```
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
```

Methods Called:

```
print(Callie.feed("Dog"))
```

Tests:

- Attributes of `callie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = -20, adopted = False, isVaccinated = False, owner = None

Output:

Callie needs to go to the vet.

Cats don't eat Dog food!

Test 08

Name: Feed Pet

Points: 3

Prerequisites: Test 01

Objects Created:

```
Tap = Pet("Tap", "Turtle", 1, 55)
```

Methods Called:

```
print(Tap.feed("Turtle"))
```

Tests:

- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None

Output:

Tap is well fed.

Test 09

Name: Feed Pet

Points: 3

Prerequisites: Test 00

Objects Created:

```
Gracie = Pet("Gracie", "Dog", 15, 175, 6, 100)
```

Methods Called:

```
print(Gracie.feed("Dog"))
```

Tests:

- Attributes of `Gracie` : name = "Gracie", species = "Dog", weight = 15, fee = 175, age = 6, happiness = 100, adopted = False, isVaccinated = False, owner = None

Output:

Gracie is full.

Test 10

Name: Pet Checkup

Points: 2

Prerequisites: Test 02, Test 07

Objects Created:

```
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
```

Methods Called:

```
Callie.feed("Dog")  
Callie.checkup()
```

Tests:

- Attributes of `Callie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 100, adopted = False, isVaccinated = True, owner = None

Test 11

Name: Pet Checkup

Points: 2

Prerequisites: Test 00, Test 09

Objects Created:

```
Gracie = Pet("Gracie", "Dog", 15, 175, 6, 100)
```

Methods Called:

```
hwGracie.feed("Dog")
print(Gracie.checkup())
```

Tests:

- Attributes of `Gracie` : name = "Gracie", species = "Dog", weight = 15, fee = 175, age = 6, happiness = 100, adopted = False, isVaccinated = False, owner = None

Output:

Gracie: Happiness - 100

Test 12

Name: Initializing a Owner Object

Points: 1

Prerequisites: None

Objects Created:

```
Lauri = Owner('Lauri', 400)
```

Methods Called: None

Tests:

- Attributes of `Lauri` : name = "Lauri", budget = 400, pets = []

Test 13

Name: Initializing a Owner Object

Points: 1

Prerequisites: None

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
```

Methods Called: None

Tests:

- Attributes of Ziyan : name = "Ziyan", budget = 1000, pets = []

Test 14

Name: Initializing a Owner Object

Points: 1

Prerequisites: None

Objects Created:

```
Rachel = Owner('Rachel')
```

Methods Called: None

Tests:

- Attributes of Rachel : name = "Rachel", budget = 150, pets = []

Test 15

Name: Initializing a Owner Object

Points: 1

Prerequisites: None

Objects Created:

```
John = Owner('John', 650)
```

Methods Called: None

Tests:

- Attributes of `John` : name = "John", budget = 650, pets = []

Test 16

Name: Pet is Adoptable

Points: 2

Prerequisites: Test 03

Objects Created:

```
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

```
print(Olive.is_adoptable())
```

Tests:

- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None

Output:

True

Test 17

Name: Pet is Adoptable

Points: 2

Prerequisites: Test 02, Test 07

Objects Created:

```
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
Callie.feed("Dog")
```

Methods Called:

```
Callie.feed("Dog")
```

```
print(Callie.is_adoptable())
```

Tests:

- Attributes of Callie: name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = -20, adopted = False, isVaccinated = False, owner = None

Output:

False

Test 18

Name: Owner Can Afford Pet

Points: 1

Prerequisites: Test 03, Test 13

Objects Created:

```
Olive = Pet("Olive", "Cat", 19, 300)
Ziyan = Owner("Ziyan", 1000)
```

Methods Called:

```
print(Ziyan.can_afford(Olive))
```

Tests:

- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None
- Attributes of `ziyan` : name = "Ziyan", budget = 1000, pets = []

Output:

True

Test 19

Name: Owner Can Adopt Pet

Points: 1

Prerequisites: Test 03, Test 13, Test 18

Objects Created:

```
Olive = Pet("Olive", "Cat", 19, 300)
Ziyan = Owner("Ziyan", 1000)
```

Methods Called:

```
Ziyan.can_afford(Olive)
```

```
print(Ziyan.adopt_pet(Olive))
```

Tests:

- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `Ziyan` : name = "Ziyan", budget = 700, pets = [Olive]

Output:

Olive has been adopted!

Test 20

Name: Initializing a AdoptionCenter Object

Points: 1

Prerequisites: None

Objects Created:

```
Dennys = AdoptionCenter("Dennys")
```

Methods Called: None

Tests:

- Attributes of `Dennys` : name = "Dennys", pets = [], owners = [], revenue = 0

Test 21

Name: Initializing a AdoptionCenter Object

Points: 1

Prerequisites: None

Objects Created:

```
Homeward = AdoptionCenter("Homeward")
```

Methods Called: None

Tests:

- Attributes of `Homeward` : name = "Homeward", pets = [], owners = [], revenue = 0

Test 22

Name: Add Pet to Adoption Center

Points: 1

Prerequisites: Test 02, Test 21

Objects Created:

```
Homeward = AdoptionCenter("Homeward")
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
```

Methods Called:

```
print(Homeward.add_pet(Callie))
```

Tests:

- Attributes of `Homeward` : name = "Homeward", pets = [Callie], owners = [], revenue = 0
- Attributes of `Callie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None

Output:

Callie has been added to the adoption center.

Test 23

Name: Add Pet to Adoption Center

Points: 1

Prerequisites: Test 00, Test 02, Test 21, Test 22

Objects Created:

```
Homeward = AdoptionCenter("Homeward")
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
Gracie = Pet("Gracie", "Dog", 15, 175, 6, 100)
```

Methods Called:

```
Homeward.add_pet(Callie)
print(Homeward.add_pet(Gracie))
```

Tests:

- Attributes of `Homeward` : name = "Homeward", pets = [Callie, Gracie], owners = [], revenue = 0
- Attributes of `Callie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None
- Attributes of `Gracie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None

Test 24

Name: Add Pet to Adoption Center

Points: 1

Prerequisites: Test 00, Test 02, Test 21, Test 22, Test 23

Objects Created:

```
Homeward = AdoptionCenter("Homeward")
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
Gracie = Pet("Gracie", "Dog", 15, 175, 6, 100)
Tap = Pet("Tap", "Turtle", 1, 55)
```

Methods Called:

Homeward.add_pet(Callie)

Homeward.add_pet(Gracie)

print(Homeward.add_pet(Tap))

Tests:

- Attributes of `Homeward` : name = "Homeward", pets = [Callie, Gracie, Tap], owners = [], revenue = 0
- Attributes of `Callie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None
- Attributes of `Gracie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None

Output:

Tap has been added to the adoption center.

Test 25

Name: Remove Pet From Adoption Center

Points: 1

Prerequisites: Test 00, Test 01, Test 02, Test 21, Test 22, Test 23, Test 24

Objects Created:

```
Homeward = AdoptionCenter("Homeward")
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
Gracie = Pet("Gracie", "Dog", 15, 175, 6, 100)
Tap = Pet("Tap", "Turtle", 1, 55)
```

Methods Called:

Homeward.add_pet(Callie)

Homeward.add_pet(Gracie)

Homeward.add_pet(Tap)

Homeward.remove_pet(Tap)

Tests:

- Attributes of `Homeward` : name = "Homeward", pets = [Callie, Gracie], owners = [], revenue = 0
- Attributes of `Callie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None
- Attributes of `Gracie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None

Test 26

Name: Add Pet to Adoption Center

Points: 1

Prerequisites: Test 01, Test 20

Objects Created:

```
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
```

Methods Called:

`print(Dennys.add_pet(Tap))`

Tests:

- Attributes of `Dennys` : name = "Dennys", pets = [Tap], owners = [], revenue = 0
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None

Output:

Tap has been added to the adoption center.

Test 27

Name: Add Pet to Adoption Center

Points: 1

Prerequisites: Test 01, Test 04, Test 5, Test 20, Test 26

Objects Created:

```
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
```

Methods Called:

```
Dennys.add_pet(Tap)
print(Dennys.add_pet(Goose))
```

Tests:

- Attributes of `Dennys` : name = "Dennys", pets = [Tap, Goose], owners = [], revenue = 0
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = False, isVaccinated = False, owner = None

Output:

Goose has been added to the adoption center.

Test 28

Name: Add Pet to Adoption Center

Points: 1

Prerequisites: Test 01, Test 04, Test 20, Test 26, Test 27

Objects Created:

```
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
```

Methods Called:

```
Dennys.add_pet(Tap)
Dennys.add_pet(Goose)
print(Dennys.add_pet(Duck))
```

Tests:

- Attributes of `Dennys` : name = "Dennys", pets = [Tap, Goose, Duck], owners = [], revenue = 0

- Attributes of Tap : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of Goose : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = False, isVaccinated = False, owner = None
- Attributes of Duck : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None

Output:

Duck has been added to the adoption center.

Test 29

Name: Add Pet to Adoption Center

Points: 1

Prerequisites: Test 01, Test 03, Test 04, Test 05, Test 20, Test 26, Test 27, Test 28

Objects Created:

```
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

Dennys.add_pet(Tap)

Dennys.add_pet(Goose)

Dennys.add_pet(Duck)

print(Dennys.add_pet(Olive))

Tests:

- Attributes of Dennys : name = "Dennys", pets = [Tap, Goose, Duck, Olive], owners = [], revenue = 0
- Attributes of Tap : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of Goose : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = False, isVaccinated = False, owner = None
- Attributes of Duck : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None
- Attributes of olive : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None

Output:

Olive has been added to the adoption center.

Test 30

Name: Find Pet By Species In Adoption Center

Points: 3

Prerequisites: Test 01, Test 03, Test 04, Test 05, Test 20, Test 26, Test 27, Test 28, Test 29

Objects Created:

```
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

```
Dennys.add_pet(Tap)
Dennys.add_pet(Goose)
Dennys.add_pet(Duck)
Dennys.add_pet(Olive)
print(Dennys.find_pet_by_species("cat"))
```

Tests:

- Attributes of `Dennys` : name = "Dennys", pets = [Tap, Goose, Duck, Olive], owners = [], revenue = 0
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = False, isVaccinated = False, owner = None
- Attributes of `Duck` : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None
- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None

Output:

[Goose, Duck, Olive]

Test 31

Name: Log Adoption in Adoption Center

Points: 5

Prerequisites: Test 01, Test 03, Test 04, Test 05, Test 13, Test 20, Test 26, Test 27, Test 28, Test 29

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

```
Dennys.add_pet(Tap)
Dennys.add_pet(Goose)
Dennys.add_pet(Duck)
Dennys.add_pet(Olive)
print(Dennys.log_adoption(Olive, Ziyan))
```

Tests:

- Attributes of `Ziyan` : name = "Ziyan", budget = 700, pets = [Olive]
- Attributes of `Dennys` : name = "Dennys", pets = [Tap, Goose, Duck], owners = [Ziyan], revenue = 300
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = False, isVaccinated = False, owner = None
- Attributes of `Duck` : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None
- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"

Output:

Ziyan has adopted Olive!

Test 32

Name: Log Adoption in Adoption Center

Points: 5

Prerequisites: Test 01, Test 03, Test 04, Test 05, Test 13, Test 20, Test 26, Test 27, Test 28, Test 29, Test 31

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

```
Dennys.add_pet(Tap)
Dennys.add_pet(Goose)
Dennys.add_pet(Duck)
Dennys.add_pet(Olive)
Dennys.log_adoption(Olive, Ziyan)
print(Dennys.log_adoption(Duck, Ziyan))
```

Tests:

- Attributes of `Ziyan` : name = "Ziyan", budget = 500, pets = [Olive, Duck]
- Attributes of `Dennys` : name = "Dennys", pets = [Tap, Goose], owners = [Ziyan], revenue = 500
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = False, isVaccinated = False, owner = None
- Attributes of `Duck` : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"

Output:

Ziyan has adopted Duck!

Test 33

Name: Log Adoption in Adoption Center

Points: 5

Prerequisites: Test 01, Test 03, Test 04, Test 05, Test 13, Test 20, Test 26, Test 27, Test 28, Test 29, Test 31, Test 32

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

```
Dennys.add_pet(Tap)
Dennys.add_pet(Goose)
Dennys.add_pet(Duck)
Dennys.add_pet(Olive)
Dennys.log_adoption(Olive, Ziyan)
Dennys.log_adoption(Duck, Ziyan)
print(Dennys.log_adoption(Goose, Ziyan))
```

Tests:

- Attributes of `Ziyan` : name = "Ziyan", budget = 370, pets = [Olive, Duck, Goose]
- Attributes of `Dennys` : name = "Dennys", pets = [Tap], owners = [Ziyan], revenue = 630
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `Duck` : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `Olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"

Output:

Ziyan has adopted Goose!

Test 34

Name: Log Adoption in Adoption Center

Points: 1

Prerequisites: Test 01, Test 03, Test 04, Test 05, Test 13, Test 20, Test 26, Test 27, Test 28, Test 29, Test 31, Test 32, Test 33

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

```
Dennys.add_pet(Tap)
Dennys.add_pet(Goose)
Dennys.add_pet(Duck)
Dennys.add_pet(Olive)
Dennys.log_adoption(Olive, Ziyan)
Dennys.log_adoption(Duck, Ziyan)
Dennys.log_adoption(Goose, Ziyan)
print(Dennys.log_adoption(Tap, Ziyan))
```

Tests:

- Attributes of `Ziyan` : name = "Ziyan", budget = 315, pets = [Olive, Duck, Goose, Tap]
- Attributes of `Dennys` : name = "Dennys", pets = [], owners = [Ziyan], revenue = 685
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `Duck` : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `Olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"

Output:

Ziyan has adopted Tap!

Test 35

Name: Log Adoption in Adoption Center

Points: 5

Prerequisites: Test 00, Test 02, Test 12, Test 21, Test 22, Test 23, Test 24, Test 25

Objects Created:

```
Homeward = AdoptionCenter("Homeward")
Lauri = Owner('Lauri', 400)
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
Gracie = Pet("Gracie", "Dog", 15, 175, 6, 100)
Tap = Pet("Tap", "Turtle", 1, 55)
```

Methods Called:

```
Homeward.add_pet(Callie)
Homeward.add_pet(Gracie)
Homeward.add_pet(Tap)
Homeward.remove_pet(Tap)
print(Homeward.log_adoption(Callie, Lauri))
```

Tests:

- Attributes of `Homeward` : name = "Homeward", pets = [Gracie], owners = [Lauri], revenue = 350
- Attributes of `Callie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None
- Attributes of `Gracie` : name = "Gracie", species = "Dog", weight = 15, fee = 175, age = 6, happiness = 100, adopted = False, isVaccinated = False, owner = None
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None

Output:

Sorry, Callie cannot be adopted right now.

Test 36

Name: Log Adoption in Adoption Center

Points: 5

Prerequisites: Test 00, Test 02, Test 12, Test 14, Test 21, Test 22, Test 23, Test 24, Test 25, Test 35

Objects Created:

```
Homeward = AdoptionCenter("Homeward")
Lauri = Owner('Lauri', 400)
Rachel = Rachel = Owner('Rachel')
Callie = Pet("Callie", "Cat", 8, 350, 10, 10)
Gracie = Pet("Gracie", "Dog", 15, 175, 6, 100)
Tap = Pet("Tap", "Turtle", 1, 55)
```

Methods Called:

```
Homeward.add_pet(Callie)
Homeward.add_pet(Gracie)
Homeward.add_pet(Tap)
Homeward.remove_pet(Tap)
Homeward.log_adoption(Callie, Lauri)
print(Homeward.log_adoption(Gracie, Rachel))
```

Tests:

- Attributes of `Homeward` : name = "Homeward", pets = [Gracie, Callie], owners = [], revenue = 0
- Attributes of `Callie` : name = "Callie", species = "Cat", weight = 8, fee = 350, age = 10, happiness = 10, adopted = False, isVaccinated = False, owner = None
- Attributes of `Gracie` : name = "Gracie", species = "Dog", weight = 15, fee = 175, age = 6, happiness = 100, adopted = False, isVaccinated = False, owner = None
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 55, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None

Output:

Sorry, Gracie cannot be adopted right now.

Test 37

Name: Pet Up For Adoption

Points: 5

Prerequisites: Test 01, Test 03, Test 04, Test 05, Test 13, Test 20, Test 26, Test 27, Test 28, Test 29, Test 31, Test 32, Test 33, Test 34

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

```
Dennys.add_pet(Tap)
Dennys.add_pet(Goose)
Dennys.add_pet(Duck)
Dennys.add_pet(Olive)
Dennys.log_adoption(Olive, Ziyan)
Dennys.log_adoption(Duck, Ziyan)
Dennys.log_adoption(Goose, Ziyan)
Dennys.log_adoption(Tap, Ziyan)
print(Tap.up_for_adoption(Ziyan, 100))
```

Tests:

- Attributes of `Ziyan` : name = "Ziyan", budget = 315, pets = [Olive, Duck, Goose]
- Attributes of `Dennys` : name = "Dennys", pets = [], owners = [Ziyan], revenue = 685
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 100, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `Duck` : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"

Test 38

Name: Adopted Pets Dictionary in Adoption Center

Points: 4

Prerequisites: Test 01, Test 03, Test 04, Test 05, Test 13, Test 20, Test 26, Test 27, Test 28, Test 29, Test 31, Test 32, Test 33, Test 34, Test 37

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

```
Dennys.add_pet(Tap)
Dennys.add_pet(Goose)
Dennys.add_pet(Duck)
Dennys.add_pet(Olive)
Dennys.log_adoption(Olive, Ziyan)
Dennys.log_adoption(Duck, Ziyan)
Dennys.log_adoption(Goose, Ziyan)
Dennys.log_adoption(Tap, Ziyan)
Tap.up_for_adoption(Ziyan, 100)
print(Dennys.adopted_pets_dict())
```

Tests:

- Attributes of `Ziyan` : name = "Ziyan", budget = 315, pets = [Olive, Duck, Goose]
- Attributes of `Dennys` : name = "Dennys", pets = [], owners = [Ziyan], revenue = 685
- Attributes of `Tap` : name = "Tap", species = "Turtle", weight = 1, fee = 100, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `Duck` : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"

Output:

```
{"Ziyan": [Olive, Duck, Goose]}
```

Test 39

Name: Happiness of Adopted Pets for Adoption Center

Points: 6

Prerequisites: Test 01, Test 03, Test 04, Test 05, Test 13, Test 20, Test 26, Test 27, Test 28, Test 29, Test 31, Test 32, Test 33, Test 34, Test 37, Test 38

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
Dennys = AdoptionCenter("Dennys")
Tap = Pet("Tap", "Turtle", 1, 55)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
Duck = Pet("Duck", "Cat", 9, 200)
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

```
Dennys.add_pet(Tap)
Dennys.add_pet(Goose)
Dennys.add_pet(Duck)
Dennys.add_pet(Olive)
Dennys.log_adoption(Olive, Ziyan)
Dennys.log_adoption(Duck, Ziyan)
Dennys.log_adoption(Goose, Ziyan)
Dennys.log_adoption(Tap, Ziyan)
Tap.up_for_adoption(Ziyan, 100)
Dennys.adopted_pets_dict()
print(Dennys.happiness_of_adopted_pets())
```

Tests:

- Attributes of Ziyan : name = "Ziyan", budget = 315, pets = [Olive, Duck, Goose]
- Attributes of Dennys : name = "Dennys", pets = [], owners = [Ziyan], revenue = 685
- Attributes of Tap : name = "Tap", species = "Turtle", weight = 1, fee = 100, age = 1, happiness = 70, adopted = False, isVaccinated = False, owner = None
- Attributes of Goose : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = True, isVaccinated = False, owner = "Ziyan"
- Attributes of Duck : name = "Duck", species = "Cat", weight = 9, fee = 200, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"

- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = True, isVaccinated = False, owner = "Ziyan"

Output:

175

Test 40

Name: Pet Str Method

Points: 2

Prerequisites: Test 03

Objects Created:

```
Olive = Pet("Olive", "Cat", 19, 300)
```

Methods Called:

print(Olive)

Tests:

- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None

Output:

Olive (Cat, 1 yrs, 50 happiness) - Available, Fee: \$300

Test 41

Name: Owner Str Method

Points: 2

Prerequisites: Test 13

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
```

Methods Called:

print(Ziyan)

Tests:

- Attributes of `ziyan` : name = "Ziyan", budget = 100, pets = []

Output:

Ziyan has 0 pets and a budget of \$1000.

Test 42

Name: AdoptionCenter Str Method

Points: 2

Prerequisites: Test 20

Objects Created:

```
Dennys = AdoptionCenter("Dennys")
```

Methods Called:

```
print(Dennys)
```

Tests:

- Attributes of `Dennys` : name = "Dennys", pets = [], owners = [], revenue = 0

Output:

Dennys has 0 pets available for adoption.

Test 43

Name: Pet GT Method

Points: 2

Prerequisites: Test 03, Test 04

Objects Created:

```
Olive = Pet("Olive", "Cat", 19, 300)
Goose = Pet("Goose", "Cat", 3, 130, 2, 75)
```

Methods Called:

```
print(Olive > Goose)
```

Tests:

- Attributes of `olive` : name = "Olive", species = "Cat", weight = 19, fee = 300, age = 1, happiness = 50, adopted = False, isVaccinated = False, owner = None

- Attributes of `Goose` : name = "Goose", species = "Cat", weight = 3, fee = 130, age = 2, happiness = 75, adopted = False, isVaccinated = False, owner = None

Output:

False

Test 44

Name: Owner LT Method

Points: 2

Prerequisites: Test 13, Test 14

Objects Created:

```
Ziyan = Owner("Ziyan", 1000)
Rachel = Owner("Rachel")
```

Methods Called:

`print(Rachel < Ziyan)`

Tests:

- Attributes of `Ziyan` : name = "Ziyan", budget = 1000, pets = []
- Attributes of `Rachel` : name = "Rachel", budget = 150, pets = []

Output:

False

Test 45

Name: AdoptionCenter Str Method

Points: 2

Prerequisites: Test 20, Test 21

Objects Created:

```
Dennys = AdoptionCenter("Dennys")
Dennys = AdoptionCenter("Homeward")
```

Methods Called:

`print(Dennys == Homeward)`

Tests:

- Attributes of Dennys : name = "Dennys", pets = [], owners = [], revenue = 0
- Attributes of Homeward : name = "Homeward", pets = [], owners = [], revenue = 0

Output:

False