

POTD14.1. Problem of the Day #14

Download and Extract

An initial setup of files is provided to you via a shell script: [Download potd-q14](#)

Using a terminal, extract the initial files by running the shell script you just downloaded (you will need to navigate to the directory where you saved the file):

```
sh potd-q14.sh
```

Your files for this problem will be in the potd-q14 directory.

The Problem

Write a class `Pet` that is derived from the `Animal` class

- In addition to the `type_` and `food_` variables, `Pet` should have a private variable `name_` and private variable `owner_name_`.
- Write functions that get and set the type of `food_`, `name_`, and `owner_name_` of the `Pet` class. Follow the naming scheme of the other getters and setters.
- Write a function `print` that returns the string `"My name is NAME"` where `NAME` is the value of the `name_` variable.
- Write a default constructor for `Pet` that initializes `type_` to `cat`, `food_` to `"fish"`, `name_` to `"Fluffy"`, and `owner_name_` to `"Cinda"` and a constructor that takes in the type of animal, type of food, name, and owner name as parameters.

Testing Your Code

There is a main function in `main.cpp` that produces the following output:

```
I am a cat
My name is Garfield
```

Upload Solution

Drop files here or click to upload.
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Files

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Pet.cpp

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Pet.h

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POTD 14

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Pet.h

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Test Results

- ✔

[1/1]

Test default constructor.

▼
- ✔

[1/1]

Test parameter constructor.

▼
- ✔

[1/1]

Test setName and setOwnerName.

▼