

POTD10.1. Problem of the Day #10

Download and Extract

An initial setup of files is provided to you via a shell script: [Download potd-q10](#)

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-q10.sh
```

Your files for this problem will be in the potd-q10 directory.

The Problem

In today's POTD, we are going to explore virtual methods and simple polymorphism in C++.

You will be writing two classes: **Base** and **Derived**, **Derived** is derived from **Base**. They will each have two methods, `string foo()` and `string bar()`.

TODO:

- For **Base**, have `foo()` return "Sam I Am"
- For **Derived**, have `foo()` return "I will not eat them."
- For **Base**, have `bar()` return "Green Eggs"
- For **Derived**, have `bar()` return "And Ham"
- Note that one of these strings includes a period, but the others do not.
- Method `foo()` should be a regular method.
- Method `bar()` should be virtual.
- Create a virtual destructor for both classes. It won't do anything except keep the compiler from complaining.
- Do not create any namespaces for this problem.

Testing Your Code

Run the following commands to compile and execute your code:

```
make
./main
```

Sample Output

```
Sam I Am
Sam I Am
I will not eat them.
Green Eggs
And Ham
And Ham
```

Check main.cpp. Are the results what you expected?

Upload Solution

Drop files here or click to upload.

Only the files listed below will be accepted—others will be ignored.

Files

✓

Base.cpp

uploaded

Show preview ▾

✓

Derived.cpp

uploaded

Show preview ▾

POTD 10

Total points:

1/1

Score:

0%

Question

Value:

1

History:

1

Awarded points:

1/1

Report an error in this question

Previous question

Next question

✔ Base.h

uploaded

Show preview ▾

✔ Derived.h

uploaded

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Save & Grade

Save only

Submitted answer

correct: 100%

Submitted at 2019-02-11 20:54:58 (CST)

i

hide ^

Files

✔ Base.cpp

uploaded

Show preview ▾

✔ Base.h

uploaded

Show preview ▾

✔ Derived.cpp

uploaded

Show preview ▾

✔ Derived.h

uploaded

Show preview ▾

Score: 6/6 (100%)

Test Results

✔ [1/1] x1->foo()

▾

✔ [1/1] x2->foo()

▾

✔ [1/1] y1->foo()

▾

✔ [1/1] x1->bar()

▾

✔ [1/1] x2->bar()

▾

✔ [1/1] y1->bar()

▾