

## 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.

POTD 10

Total points: 0/1

Score: 0%

Question

Value: 1

History:

Awarded points: 0/1

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Files
<div><input type="radio"/> Base.cpp</div> <div>not uploaded</div>
<div><input type="radio"/> Derived.cpp</div> <div>not uploaded</div>
<div><input type="radio"/> Base.h</div> <div>not uploaded</div>
<div><input type="radio"/> Derived.h</div> <div>not uploaded</div>

Save & Grade

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