POTD8.1. Problem of the Day #8

Download and Extract

An initial setup of files is provided to you via a shell script: Download potd-q8

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-q8.sh

Your files for this problem will be in the potd-q8 directory.

The Problem

The game of chess is made up of a board and pieces of different types and colors. Two different classes exist in this problem:

- Piece, a class representing a generic chess piece
- Queen, a class representing a queen

First, modify the Queen class so that it extends the Piece class (public).

Then add two public methods, with the same name, to the two classes:

- In the Piece class, add the method string Piece::getType() that returns "Unknown Piece Type".
- In the Queen class, add the method string Queen::getType() that returns "Queen".

Testing Your Code

We provide you with a main.cpp. In main, we create a Queen and call the same function on it in different context. Run the following commands to compile and execute your code:

make ./main

Sample Output

In main, printType() of Queen *q is: Queen
In printPiece, printType() of the same memory address is: Unknown Piece Type

Upload Solution

Drop files here or click to upload.

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

POTD 8

Total points: 0/1

Score: 0%

Question

Value: 1

History:

Awarded points: 0/1

Report an error in this question

Next question

Files	
O Piece.cpp not uploaded	
O Piece.h not uploaded	
Save & Grade Save only	
O Queen.h not uploaded	