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Fall 2023

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PA 2

Due: Fri Sep 8, 2023 11:59pm

10 Possible Points

Attempt 1

In Progress
NEXT UP: Submit Assignment

Add Comment

2 Attempts Allowed

Details

Programming Project #2

Filling A Pool

Because filling a pool/pond with water requires much more water than normal usage, your local city charges a special rate of $0.77 per cubic foot of water to fill a pool/pond. In addition, it charges a one-time fee of $100.00 for filling (i.e. there will be no such filling charge if the pool can't be filled).

This water department has requested you, as a programmer, write a C++ program that allows the user to enter a pool's length, width, and depth, in ***feet*** measurement. The program will then calculate the pool's volume, the volume of water needed to fill the pool with the water level 3 **inches** below the top, and the final cost of filling the pool, including the one-time fee. And then, all the entered sizes of the pool (in feet) and the calculated values will be displayed on the screen.

Finally, your full name as the programmer who wrote the program must be displayed at the end.

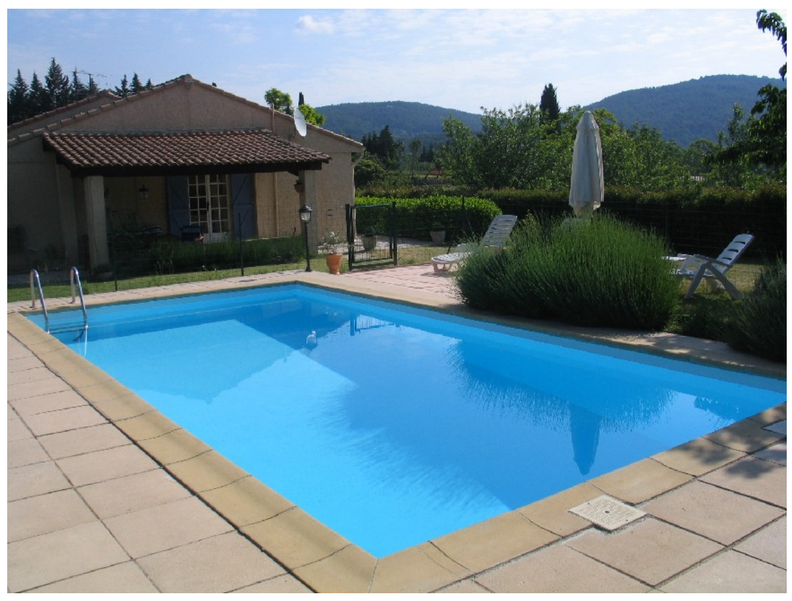
To find the volume of the pool in cubic feet, use the formula: ***volume = length * width * depth***. All values must be displayed with a corresponding label or text to tell what it was.

Note:

- Values entered for the pool sizes could be **any positive real numbers**.
- If the pool can't be filled, the cost must be none, $0.
- 2 points are deducted for each requirement that was not satisfied.
- If your program still has any compiled errors and can't be run, there is no credit or 0 points.

Testing Data (You must satisfy the attached data file)

swimming pool result.pdf



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