

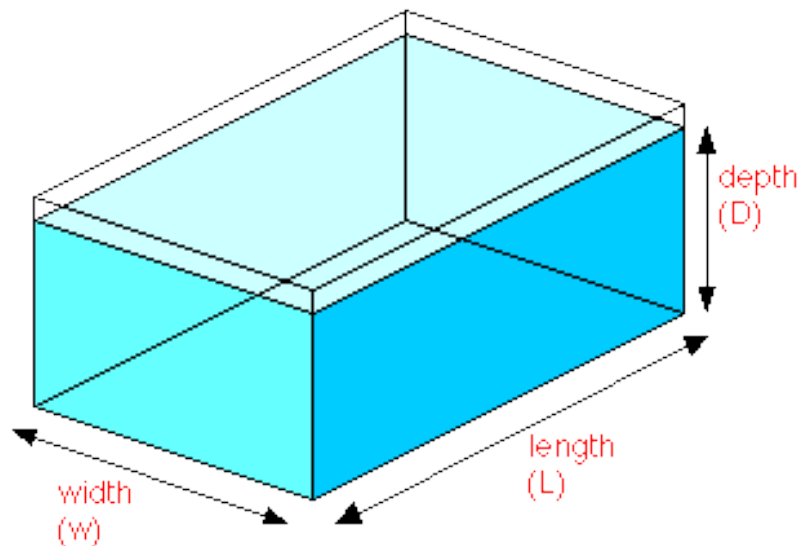
Python Programming @ The department of Computer Science



Swimming Pool

Requirements

Develop a Python program which; given the width, length and depth in whole metres (thus integer input), of a swimming pool determines and outputs: (a) the volume in litres, and (b) time in hours to fill the swimming pool. Assume that the rate of flow into the pool is 2.5 litres per second. Note: 1 litre = 1000 cubic centimetres, therefore 10 litres = 0.01 cubic metre, hence 1 metre = 1000 litres.



$$\text{Volume (Litres)} = L \times W \times D \times 1000$$

$$\text{Time to fill pool (Hours)} = \frac{\text{Volume}}{\text{Rate (Litres/sec)} \times 3600}$$

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