

Problem Solving: A Case Study

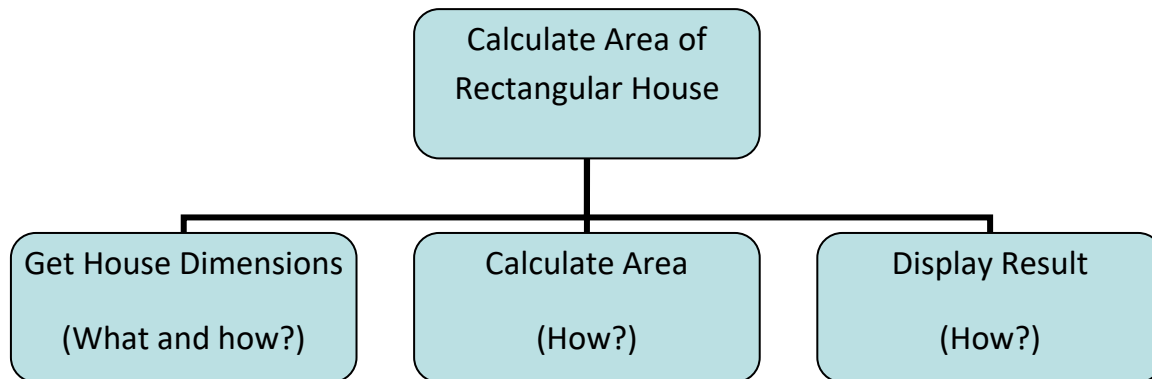
A real estate company wants you to create an app to calculate the area of a rectangular house.

What information do you need to know in order to do the calculations?

What variables do you need to store the data in?

What calculations do you need to perform?

What are the main steps to perform for solving the problem?



Problem Solving: A Case Study (3.11)

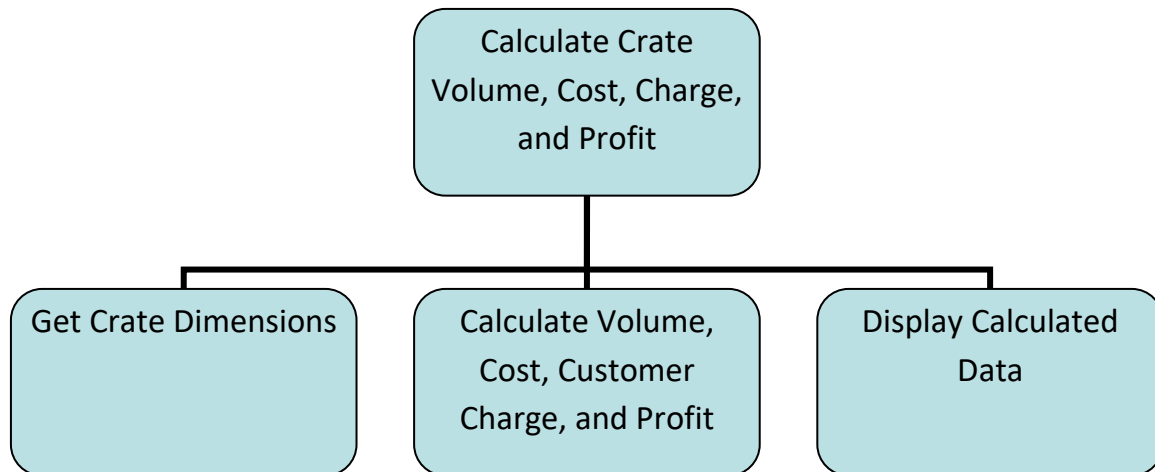
General Crates, Inc. builds custom-designed wooden crates. With materials and labor, it costs GCI \$0.23 per cubic foot to build a crate. In turn, they charge their customers \$0.50 per cubic foot for the crate. You have been asked to write a program that calculates the volume (in cubic feet), cost, customer price, and profit of any crate GCI builds.

What information do you need to know in order to do the calculations?

What variables do you need to store the data in?

What calculations do you need to perform?

What are the main steps to perform for solving the problem?



```
#include <iostream>
using namespace std;

const float COST_PER_CUBIC_FOOT = 0.23;
const float CHARGE_PER_CUBIC_FOOT = 0.50;

int main() {
}
```