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// This program is used by General Crates, Inc. to calculate
// the volume, cost, customer charge, and profit of a crate
// of any size. It calculates this data from user input, which
// consists of the dimensions of the crate.
#include <iostream>
#include <iomanip>
using namespace std;
int main()
   // Constants for cost and amount charged
   const double COST PER CUBIC FOOT = 0.23;
   const double CHARGE PER CUBIC FOOT = 0.5;
   // Variables
   double length,
                    // The crate's length
                     // The crate's width
          width,
                    // The crate's height
          height,
                     // The volume of the crate
          volume,
                     // The cost to build the crate
          cost,
                    // The customer charge for the crate
          charge,
                    // The profit made on the crate
          profit;
   // Set the desired output formatting for numbers.
   cout << setprecision(2) << fixed << showpoint;</pre>
   // Prompt the user for the crate's length, width, and height.
   cout << "Enter the dimensions of the crate (in feet):\n";</pre>
   cout << "Length: ";</pre>
   cin >> length;
   cout << "Width: ";</pre>
   cin >> width;
   cout << "Height: ";</pre>
   cin >> height;
   // Calculate the crate's volume, the cost to produce it,
   // the charge to the customer, and the profit.
   volume = length * width * height;
   cost = volume * COST PER CUBIC FOOT;
   charge = volume * CHARGE PER CUBIC FOOT;
   profit = charge - cost;
   // Display the calculated data.
   cout << "The volume of the crate is ";</pre>
   cout << volume << " cubic feet.\n";</pre>
   cout << "Cost to build: $" << cost << endl;</pre>
   cout << "Charge to customer: $" << charge << endl;</pre>
   cout << "Profit: $" << profit << endl;</pre>
   return 0;
}
```