#include <iostream>

#include <string>

#include <iomanip>

using namespace std;

int main() {

double pine = 0.89;

double fir = 1.09;

double cedar = 2.26;

double maple = 4.50;

double oak = 3.10;

char type = 'P';

int pieces;

int width;

int height;

int length;

double totalCost = 0;

double cost;

while (type != 'T') {

cout << "Enter item: ";

cin >> type;

if (type == 'T')

break;

else {

cin >> pieces >> width >> height >> length;

string woodType;

switch (type) {

case 'P':

cost = pine \* pieces \* (width \* height \* length) / 12;

woodType = "Pine";

break;

case 'F':

cost = fir \* pieces \* (width \* height \* length) / 12;

woodType = "Fir";

break;

case 'C':

cost = cedar \* pieces \* (width \* height \* length) / 12;

woodType = "Cedar";

break;

case 'M':

cost = maple \* pieces \* (width \* height \* length) / 12;

woodType = "Maple";

break;

case 'O':

cost = oak \* pieces \* (width \* height \* length) / 12;

woodType = "Oak";

break;

default:

cout << "You entered the wrong wood type, try agian." << endl;

}

totalCost = totalCost + cost;

cout << pieces << " " << width << "x" << height << "x" << length << " " << woodType << ", cost: $" << setprecision(2) << fixed << cost << endl;

}

}

cout << "Total cost: $" << setprecision(2) << fixed << totalCost << endl;

return 0;

}