void main () {
    const float redPrice = 0.10,        // Price per square foot
        // of red paint
    bluePrice = 0.15,       // Price per square foot
        // of blue paint
    greenPrice = 0.18,      // Price per square foot
        // of green paint
    inchesPerFoot = 12.0,   // Inches in 1 foot
    pi = 3.14159265;        // Ratio of circumference
        // to diameter (Remove this
        // declaration if your math.h
        // already declares PI)
    float heightInInches,               // Height in inches
        // Height of the cone in feet
    diameterInInches,               // Diameter of the cone in feet
    heightInFeet,                 // Height of the cone in feet
    diameterInFeet,               // Diameter of the cone in feet
    radius,                       // Radius of the cone in feet
    surfaceArea,                  // Surface area in square feet
    redCost,                      // Cost to paint a cone red
    blueCost,                     // Cost to paint a cone blue
    greenCost;                    // Cost to paint a cone green
    // Input Data
    cout << "Input the height of the cone in inches: ";
    cin >> heightInInches;
    cout << "Input the diameter of the base of the cone in inches: ";
    cin >> diameterInInches;
    // Convert to Feet
    heightInFeet = heightInInches / inchesPerFoot;
    diameterInFeet = diameterInInches / inchesPerFoot;
    radius = diameterInFeet / 2.0;
    // Compute surface area of the cone in square feet
    surfaceArea = pi * radius *
        sqrt(radius * radius + heightInFeet * heightInFeet);
    // Compute cost for each color
    redCost = surfaceArea * redPrice;
    blueCost = surfaceArea * bluePrice;
    greenCost = surfaceArea * greenPrice;
    // Print results
    cout << "The surface area is: "
        << setw(7) << surfaceArea << " square feet."
        << endl;
    cout << "The painting cost for" << endl;
    cout << " Red is: " << setw(7) << redCost << " dollars"
        << endl;
    cout << " Blue is: " << setw(7) << blueCost << " dollars"
        << endl;
    cout << " Green is: " << setw(7) << greenCost << " dollars"
        << endl;
}