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// File: fallMeters.cpp
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// Created on: 1/25/2019

/*Compute the distance an object falls */

#include <iostream>
using namespace std;

int main()
{
    double g = 32.185;      //32.185 feet per second^2
    double t;               //time (in seconds)
    double velocity;        //velocity after time t
    double distance;        //distance after time t
    double ratio = 0.3048;  //ratio of meters over feet

    cout << "Enter the time: ";
    cin >> t;

    // compute the velocity and distance
    velocity = g * t * ratio;
    distance = (0.5) * velocity * t;

    cout << "After " << t << " seconds, the velocity is "
         << velocity << " meters per second." << endl;
    cout << "After " << t << " seconds, the falling distance is "
         << distance << " meters." << endl;

    return (0);
}

```