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// File: projectileDist.cpp
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// Created on: 1/26/2019
/\star This program computes the horizontal distance travelled by a projectile
  that is shot at a 45 degree angle with an initial velocity v on earth.
#include <iostream>
using namespace std;
int main ()
                   //meter per second
 double v;
  double g = 9.81; //meters per second^2
  double distance; //distance in meters
  cout << "Enter the initial velocity (meter/second): " ;</pre>
  cin >> v ;
  distance = (v * v) / g;
  cout << "Horizontal distance travelled is " << distance << " meters."</pre>
       << endl;
 return (0);
```