Restated Problem: This program wants me to calculate distance the ball traveled, how long the ball is in the air, the balls maximum height, and whether or not the hit is a homerun or completely out of the park.

Given Var Names:

Function Prototypes and Constants

void getInput ();

double fenceTime (double horizontalVelocity);

double parksEdgeTime (double horizontalVelocity);

double heightAtFence (double verticalVelocity, double fenceTime, double baseHeight);

double heightAtEdge (double verticalVelocity, double edgeTime, double baseHeight);

double maxHeight (double verticalVelocity, double baseHeight, double gravity);

double travelTime (double verticalVelocity, double gravity, double baseHeight);

double distanceTraveled (double travelTime, double horizontalVelocity);

int hitResult (double heightAtFence, double heightOfFence, double heightAtEdge, double heightOfEdge);

void output (double distanceTraveled, double airTime, double maxHeight, int hitResult);

const double gravity = 9.80;

;

;

Main Function

int main ()

{

double = ;

getInput ();

= fenceTime ();

= parksEdgeTime ();

double = heightAtFence (, , );

double = heightAtEdge (, , );

double maxHeight ();

double = travelTime ();

double = distanceTraveled ();

int result = hitResult ();

output ( , , , result);

return 0;

}