**Analysis for Problem I – Speed Limit**

This is a simple problem of direct statement.

You need to simulate the stopwatch’s running to compute the total distance driven:

If the last “total elapsed time in hours” is *z*, the current “speed in miles per hour” is *x*, and the current “total elapsed time in hours” is *y*, then,

the current distance driven is (*y*-*z*)\**x*, and add it to the total distance driven.