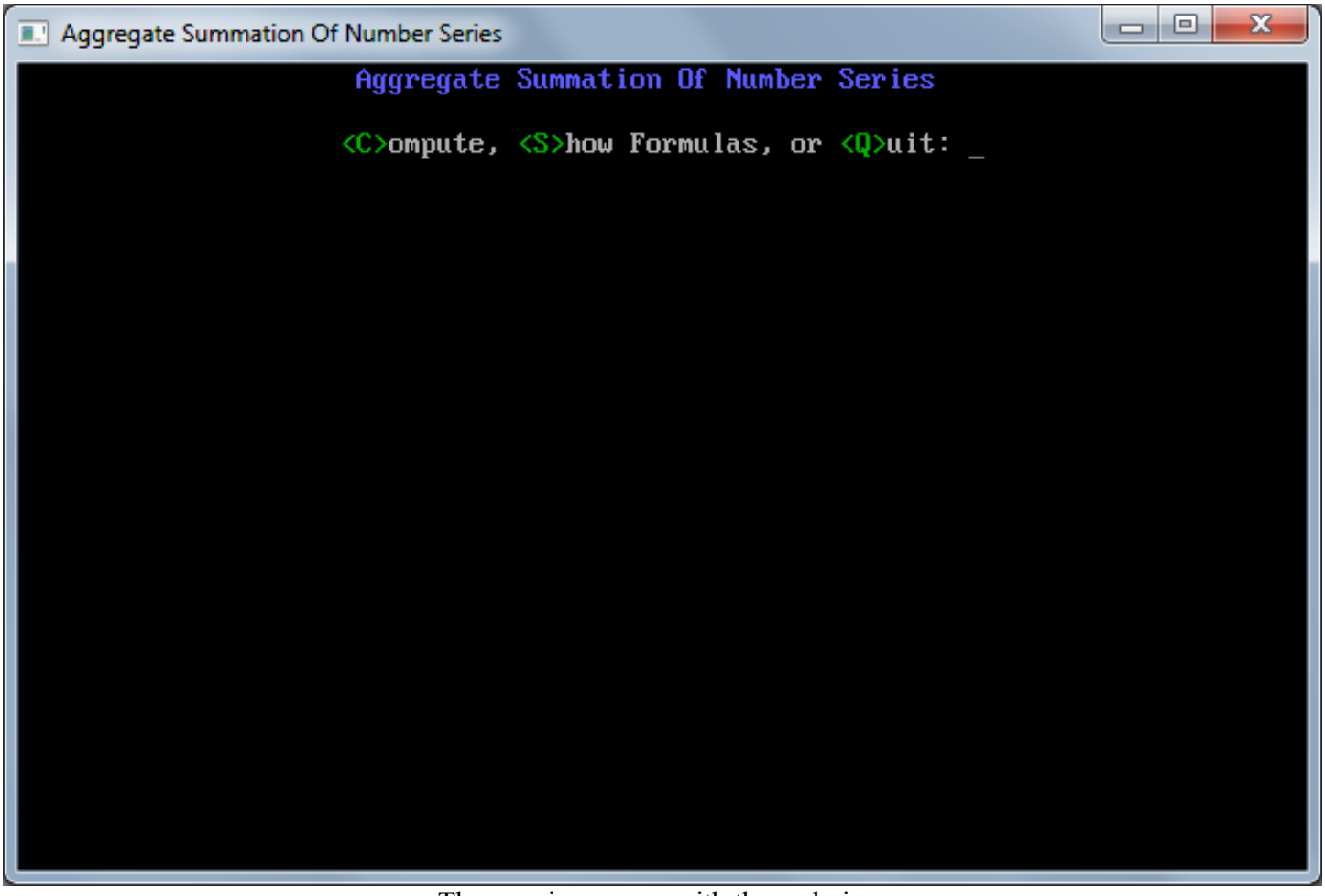
Aggregate Summation Of Number Series.exe

This Windows executable will aggregate the sum of a series of numbers, starting from anywhere and ending anywhere. The series of numbers can be incremented by 1, 2 or any other incrementation. IF the increment is 1 or 2, then there are three (3) separate formulas that can compute the total rather than summing the numbers by adding them one by one. These formulas give an instant result and are quite useful for very large series.

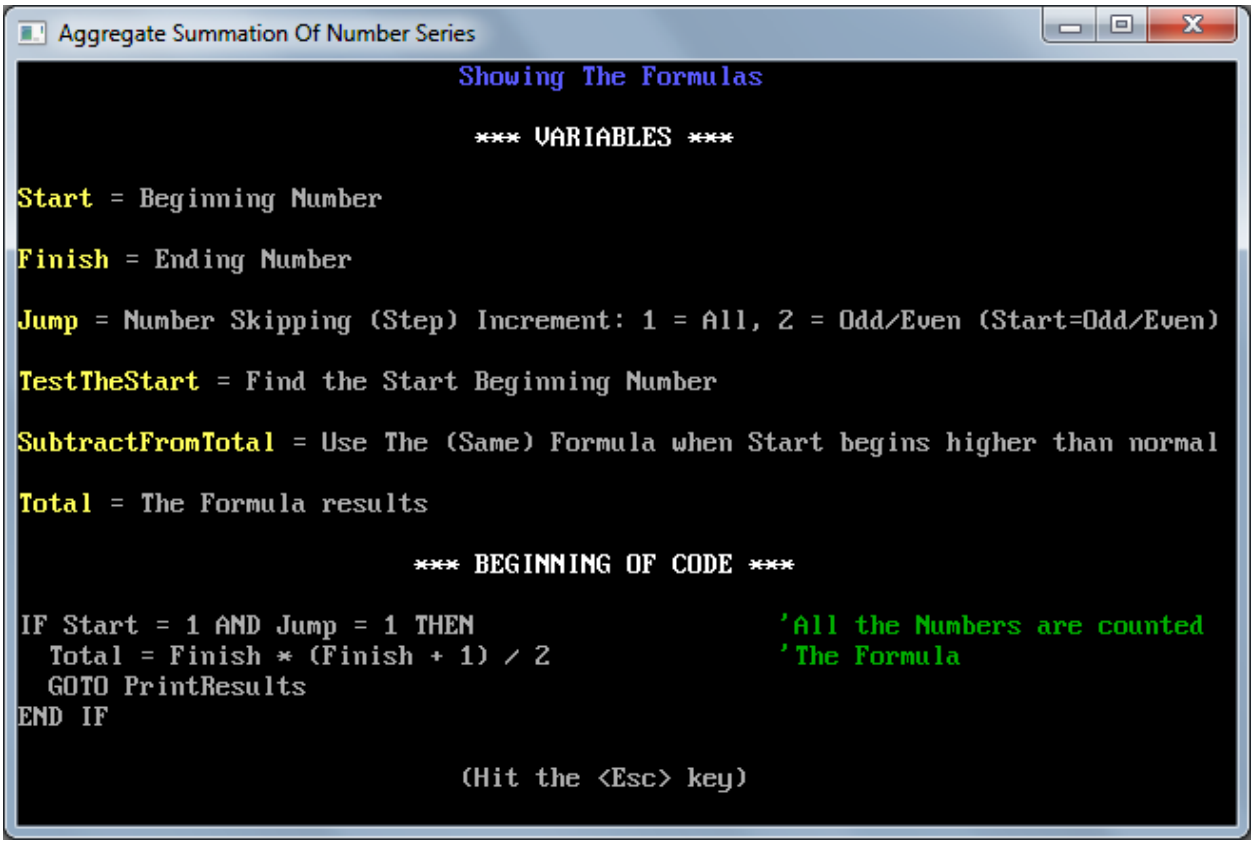
(1) Start is 1 and the Increment is 1: This formula sums the series of ***all*** the numbers from the 1 to the end point of the series. A modification of this formula allows for the start to be any random point greater than 1 with the results being the sum of the series of ***all*** numbers beginning from that random point to the end point of the series.

(2) Start is 1 and the Increment is 2: This formula sums the series of all the ***odd*** numbers from 1 to the end ***odd*** point of the series. A modification of this formula allows for the start to be any random ***odd*** point greater than 1 with the results being the sum of the series of all ***odd*** numbers beginning from that random point to the end ***odd*** point of the series.

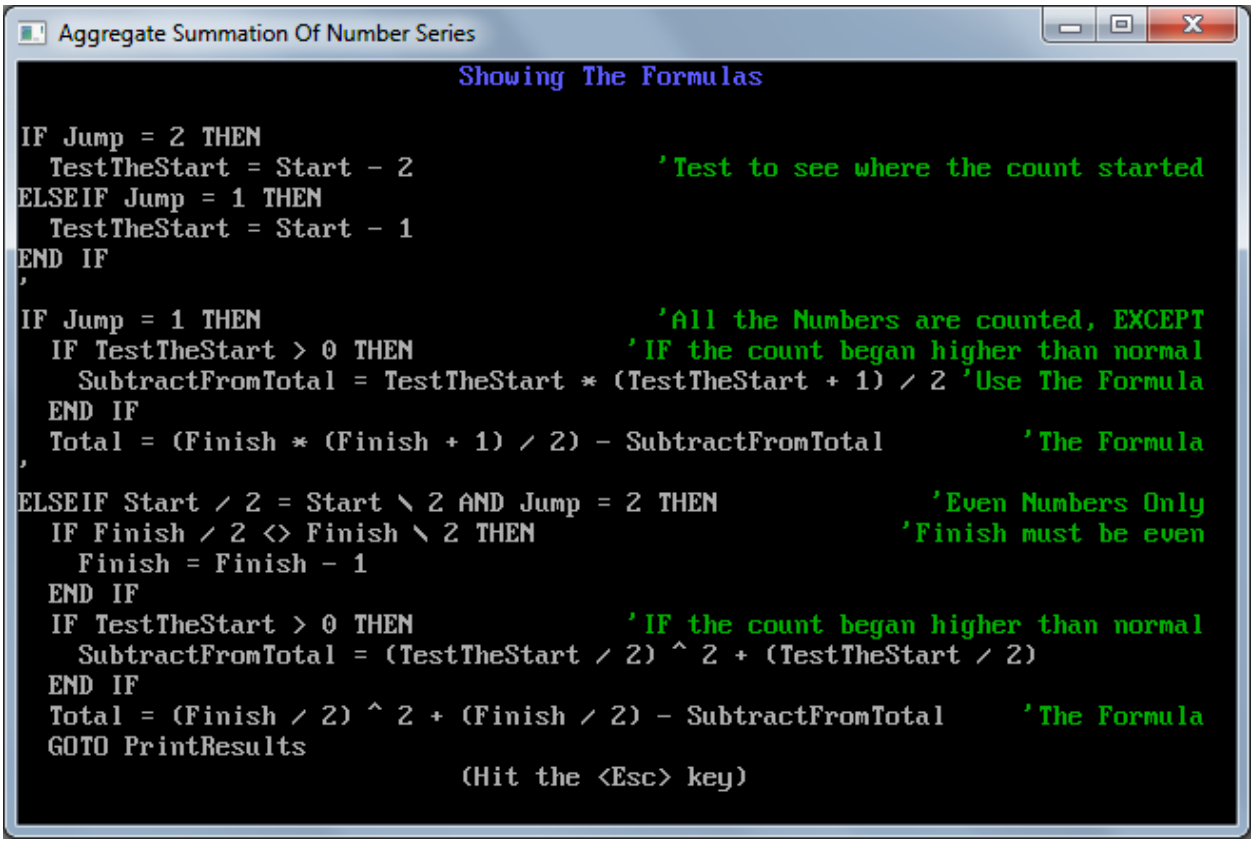
(3) Start is 2 and the Increment is 2: This formula sums the series of all the ***even*** numbers from 2 to the end ***even*** point of the series. A modification of this formula allows for the start to be any random ***even*** point greater than 2 with the results being the sum of the series of all the ***even*** numbers beginning from that random point to the end ***even*** point of the series.



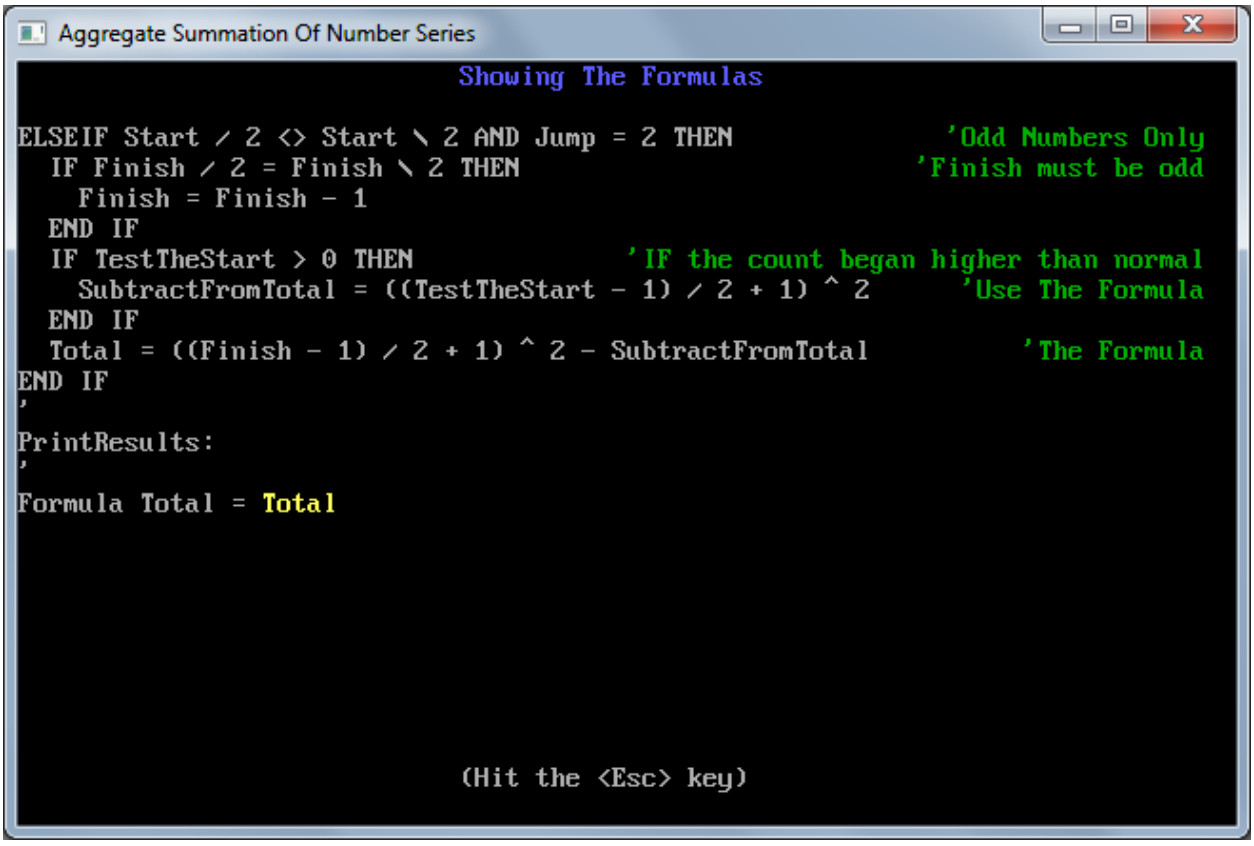
The opening screen with three choices



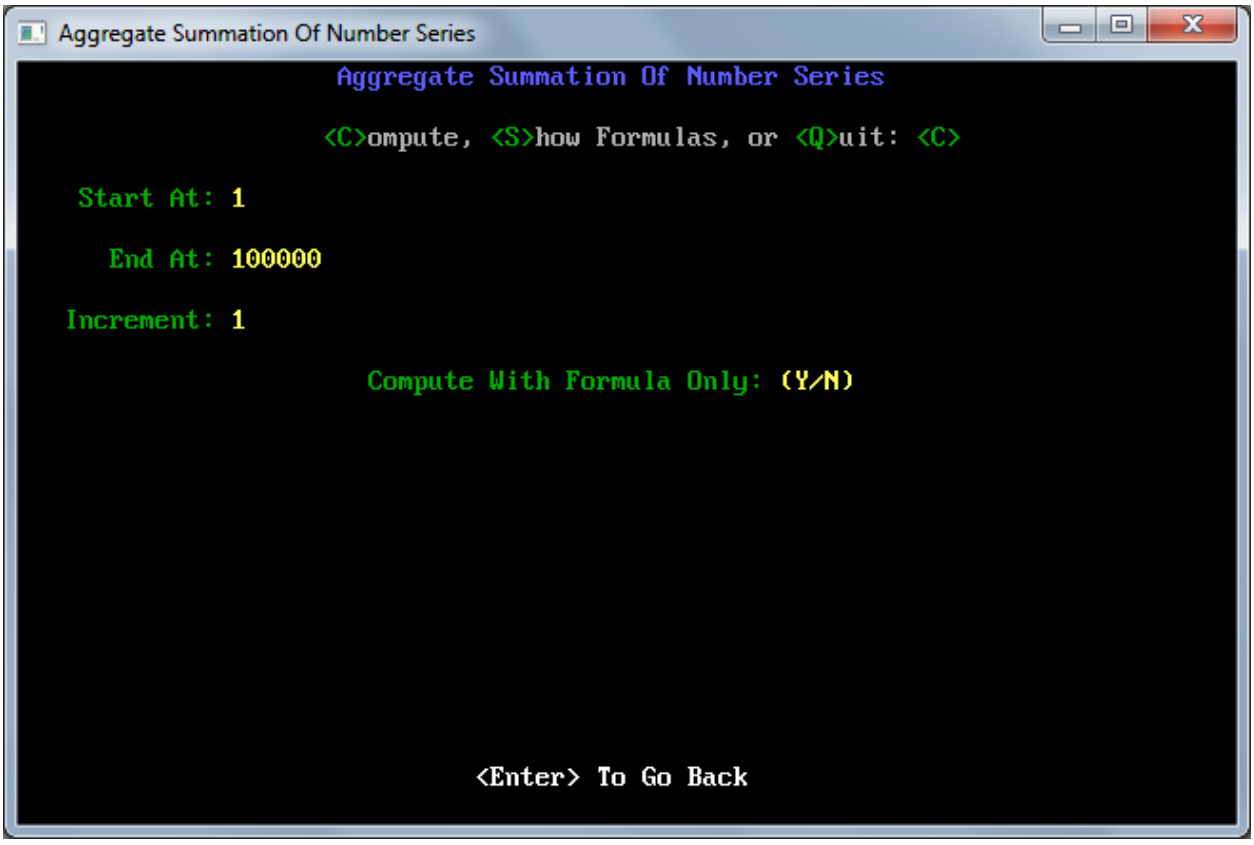
Showing the Formulas, Page 1, with a ***flashing*** prompt to hit the <Esc> key for the next page



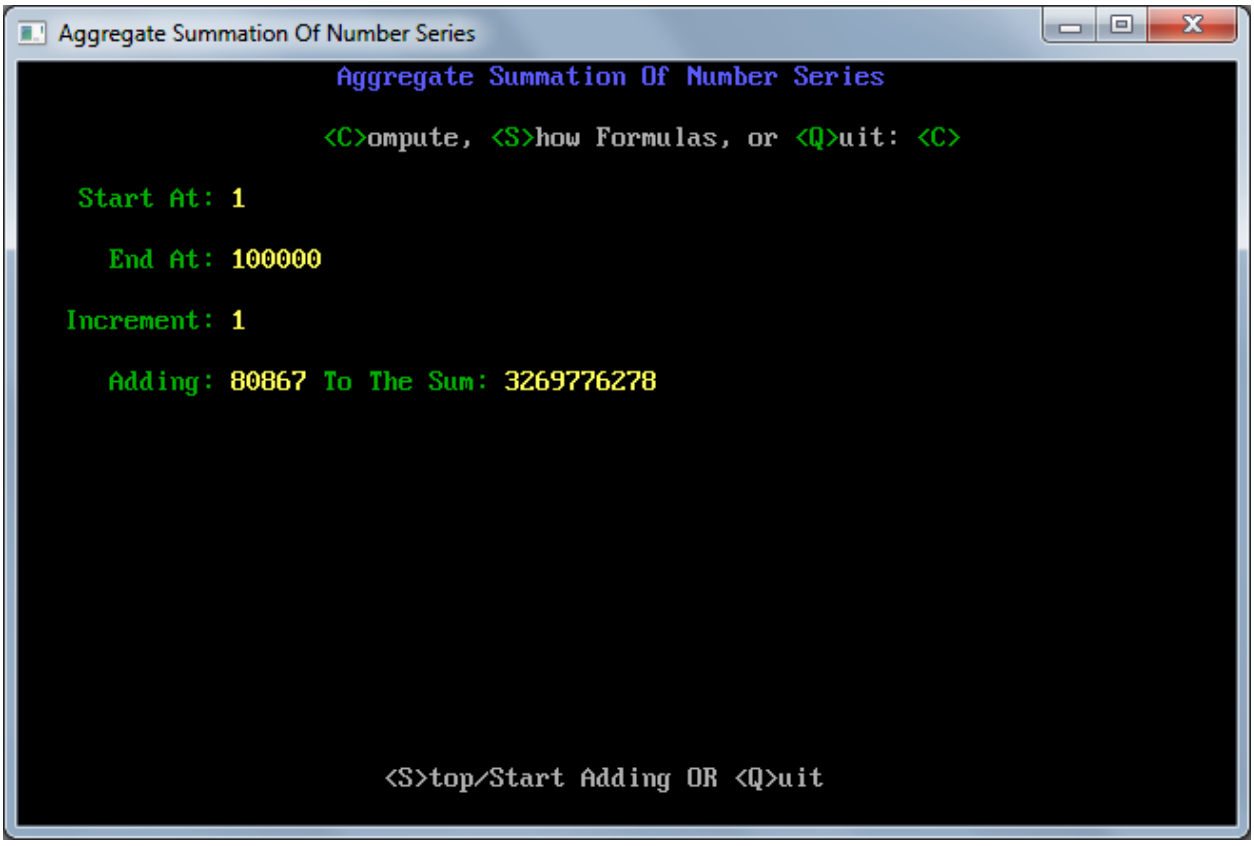
Showing the Formulas, Page 2, with a ***flashing*** prompt to hit the <Esc> key for the next page



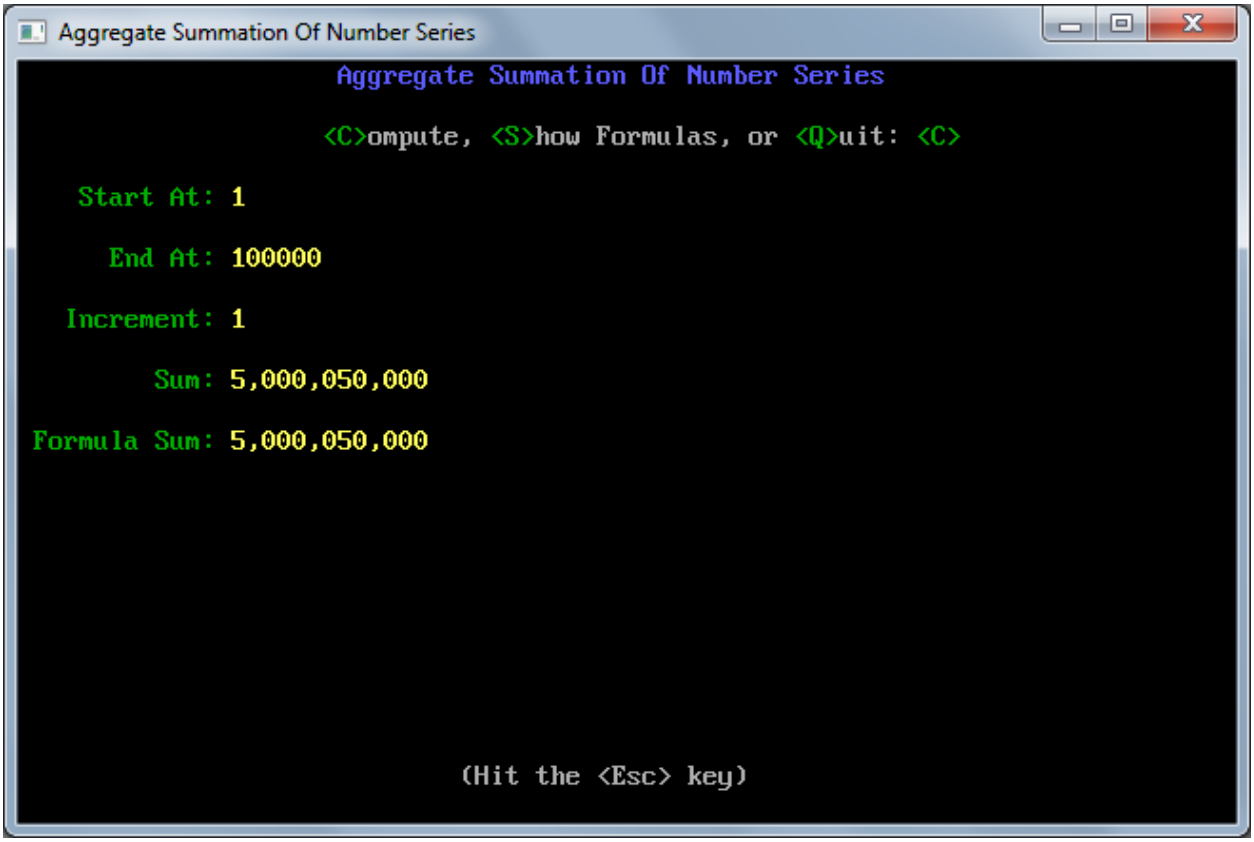
Showing the Formulas, Page 3, with a ***flashing*** prompt to hit the <Esc> key which restarts the program



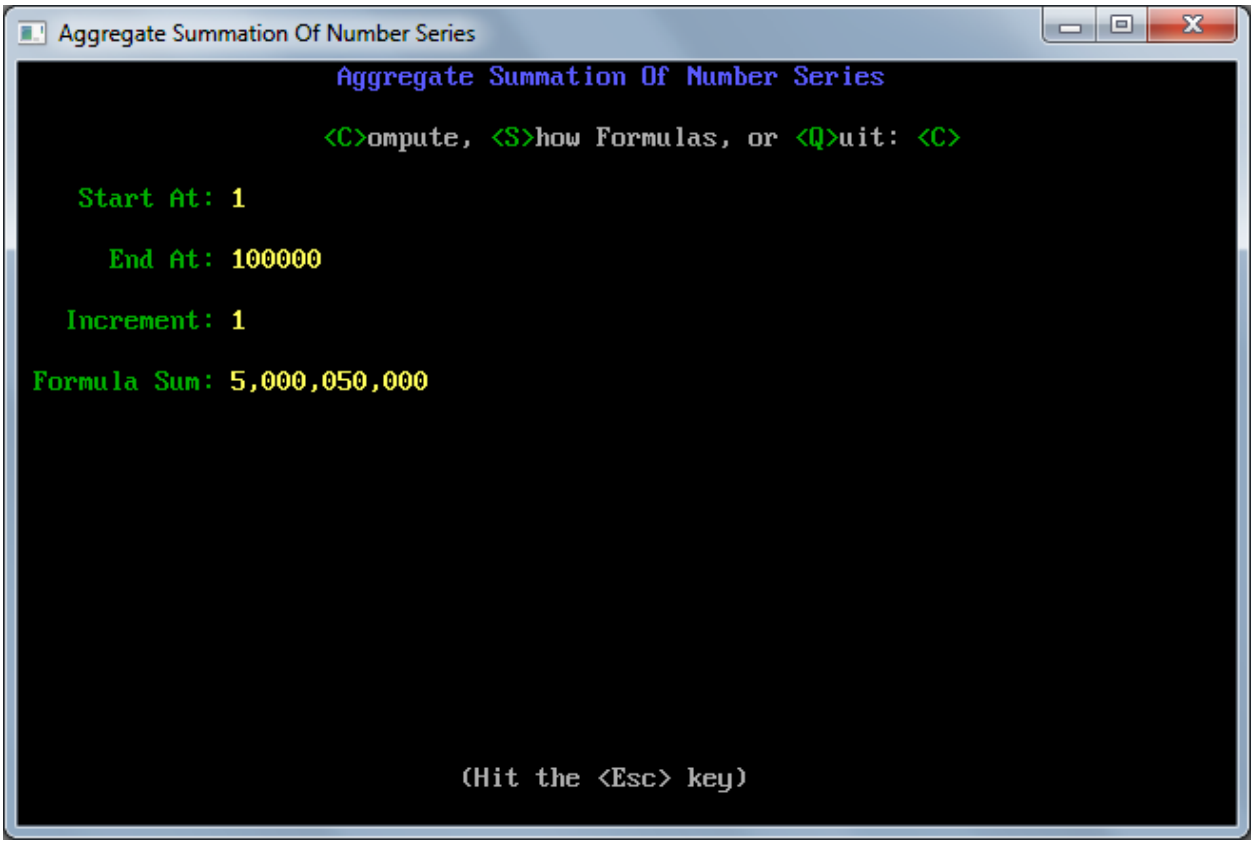
Computing the sum of ***all*** numbers from 1 to 100,000 with a Yes/No choice to use the Formula only
For every computation entry in the program, there is a ***flashing*** <Enter> prompt to go back one step for re-entry.



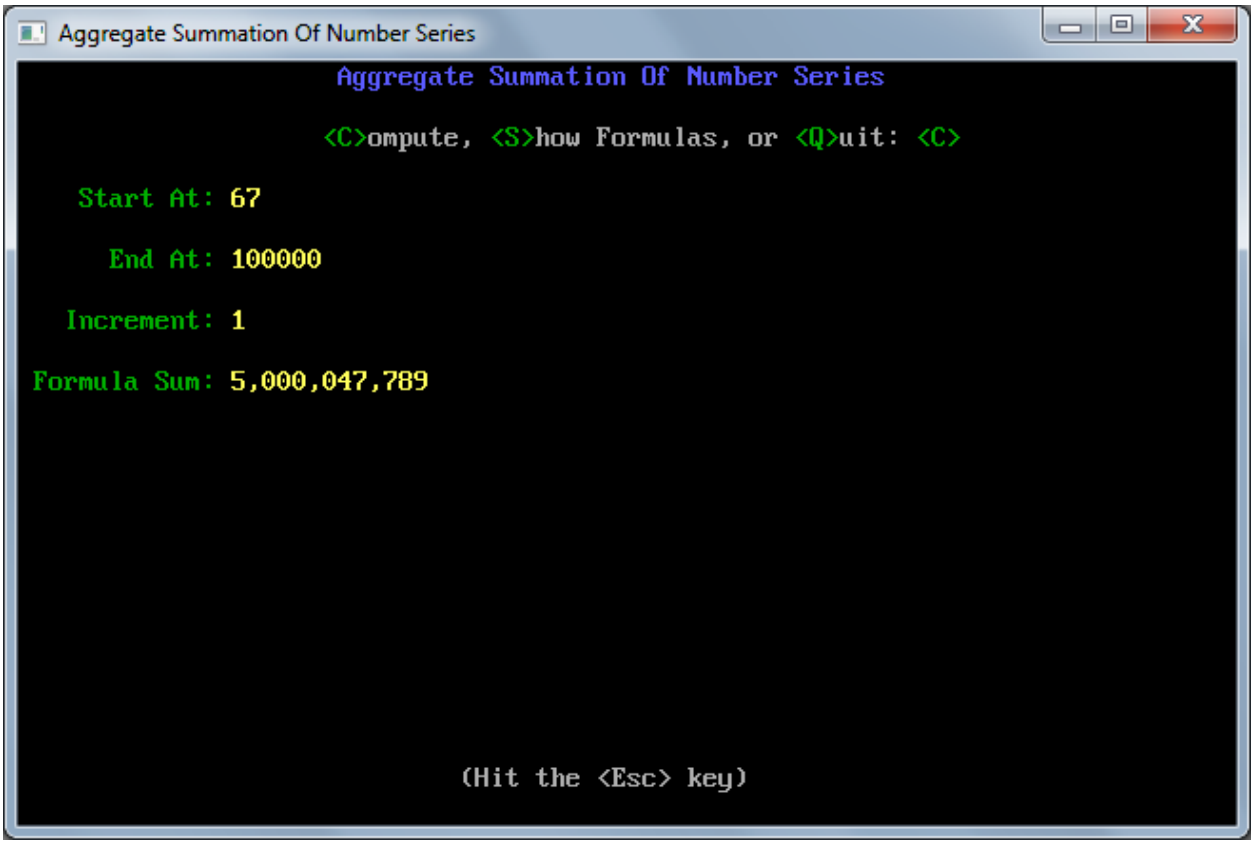
The program is summing the numbers, one-by-one. A ***flashing*** prompt to hit either the <S> or <Q> key to pause/resume the counting OR to abandon the count and restart the program.



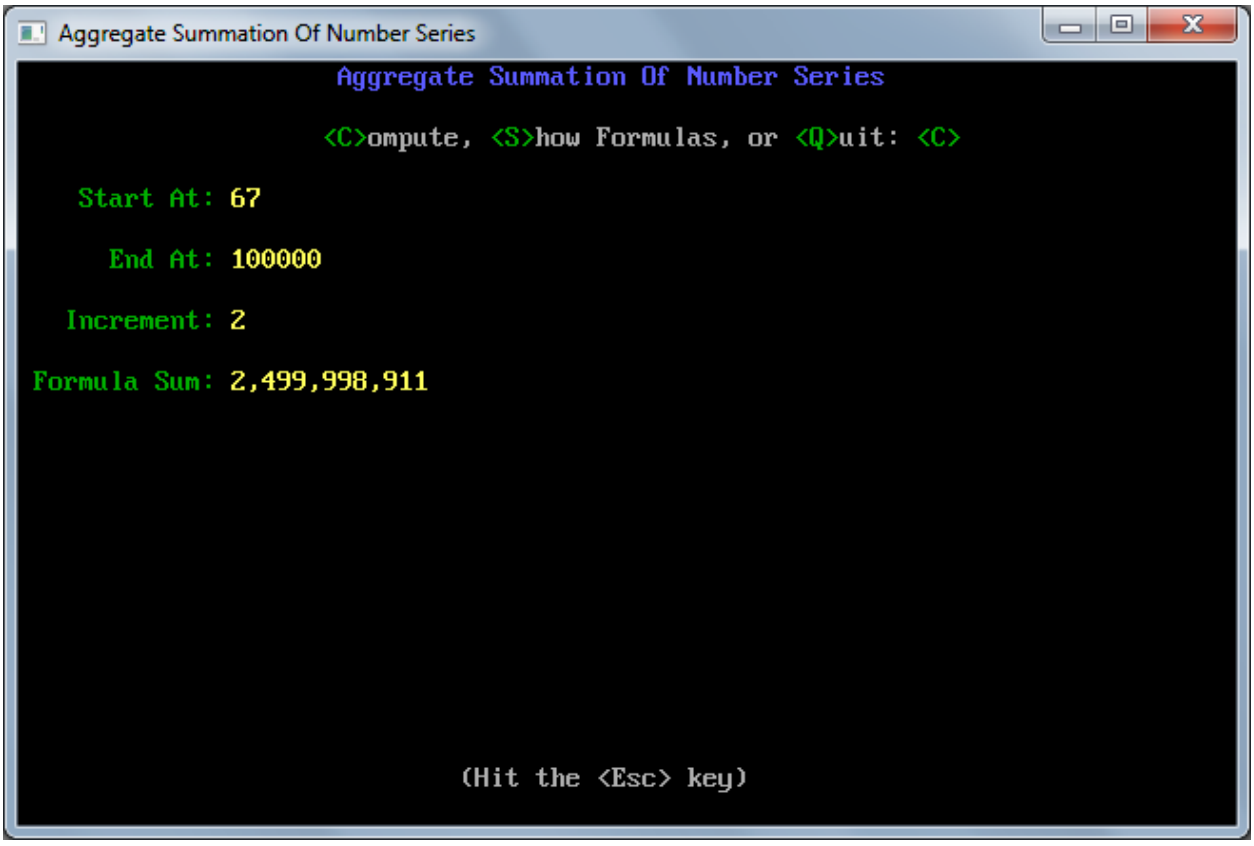
Series Sum using ***both*** summing the numbers one-by-one ***and*** the Formula
A ***flashing*** prompt to hit the <Esc> key restarts the program



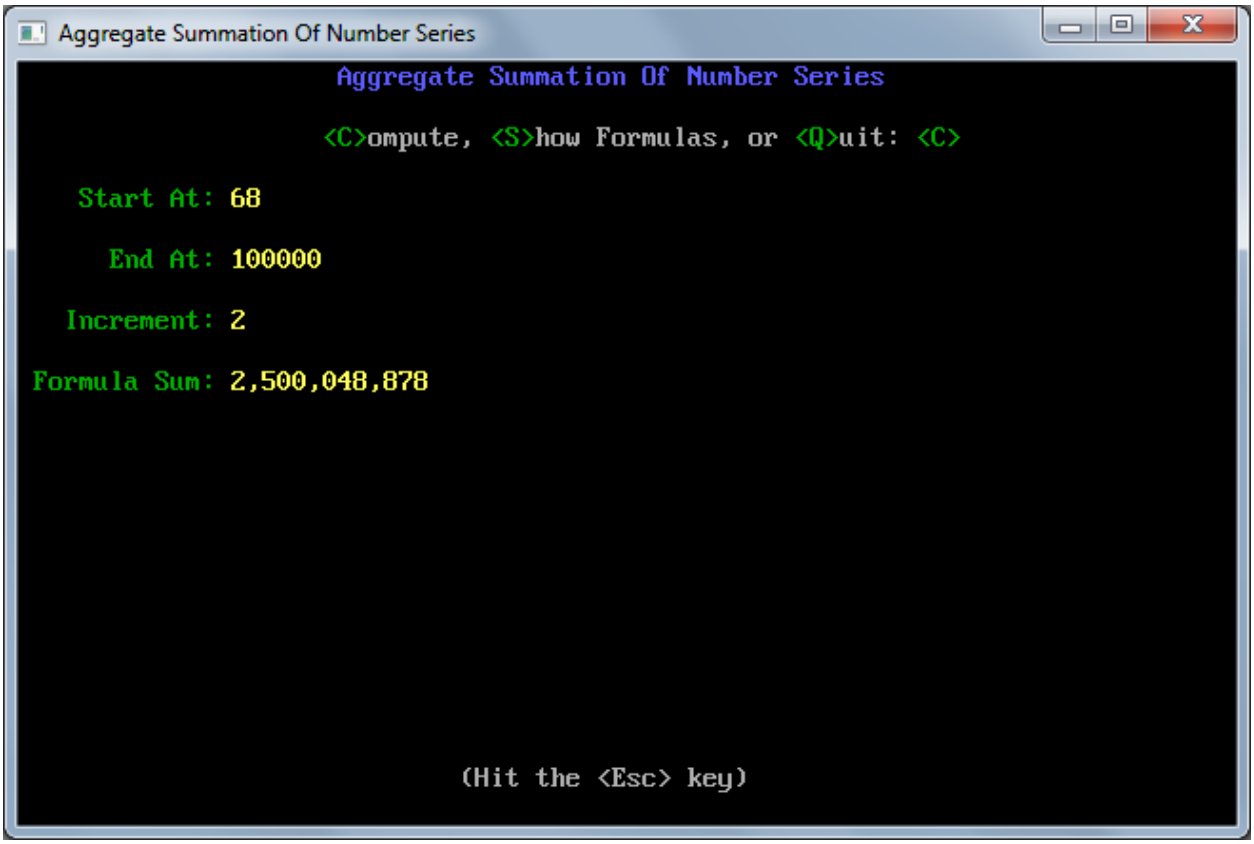
Series Sum of ***all*** the numbers starting from 1 to 100,000 using the Formula only
A ***flashing*** prompt to hit the <Esc> key restarts the program



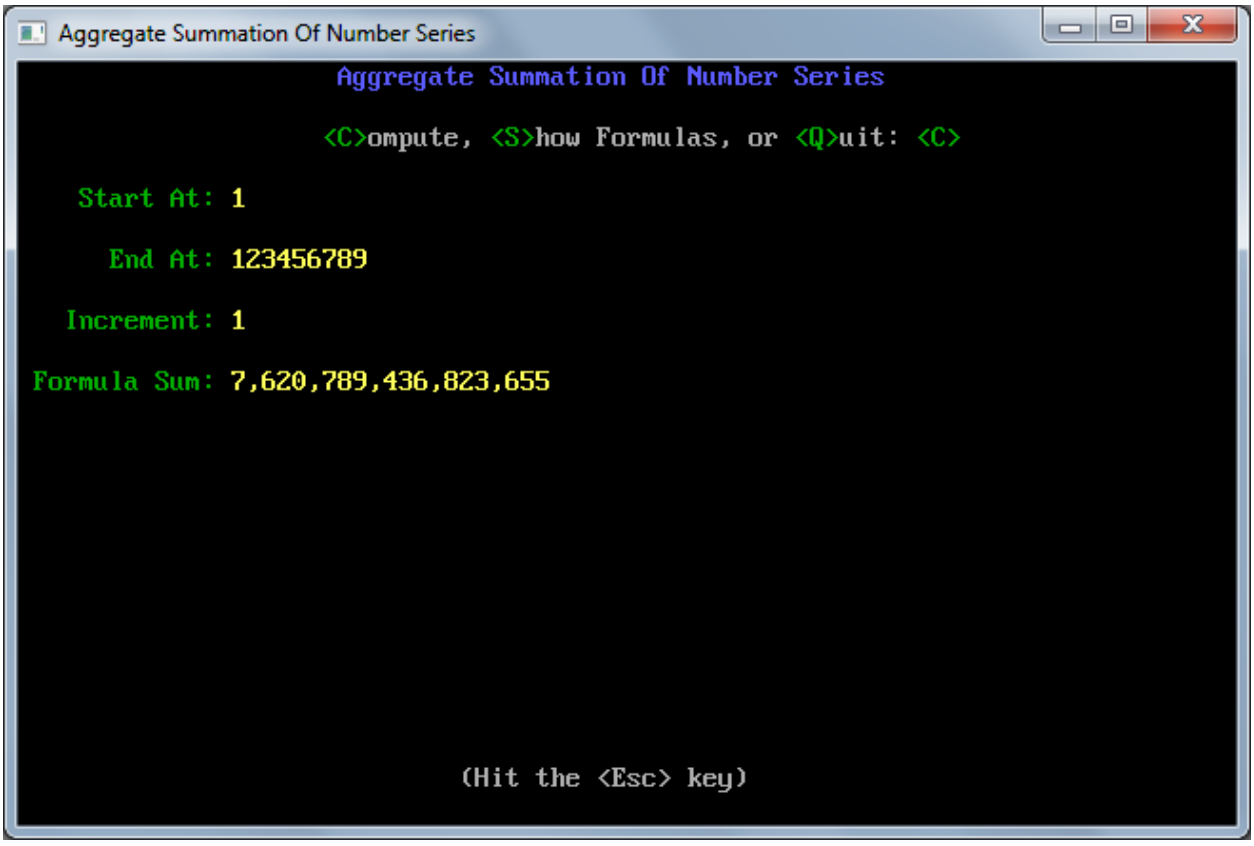
Series Sum of ***all*** the numbers starting from an arbitrary starting point of 67 and ending at 100,000
A ***flashing*** prompt to hit the <Esc> key restarts the program



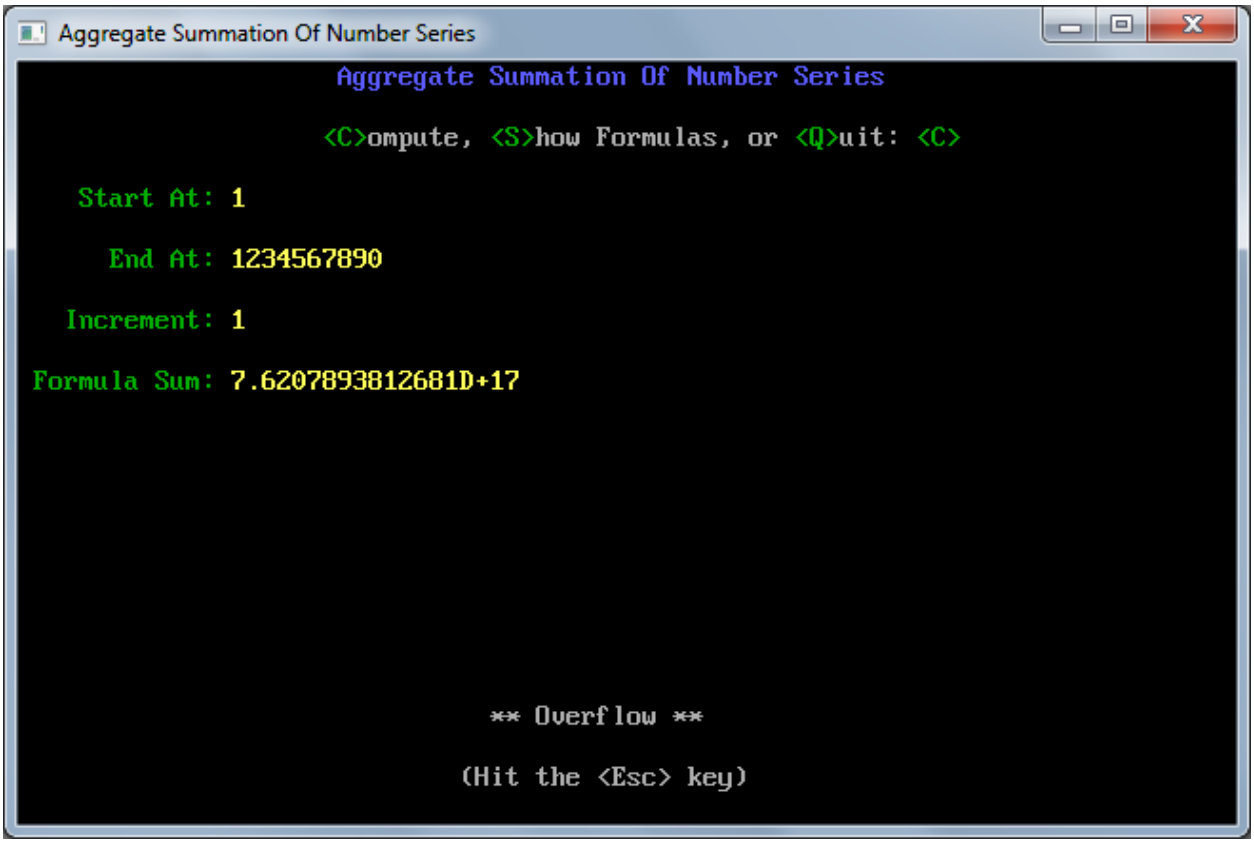
Series Sum of all the ***odd*** numbers starting from an arbitrary starting ***odd*** point of 67 and ending at 99,999
A ***flashing*** prompt to hit the <Esc> key restarts the program



Series Sum of all the ***even*** numbers starting from an arbitrary starting ***even*** point of 68 and ending at 100,000
A ***flashing*** prompt to hit the <Esc> key restarts the program



Series Sum of ***all*** the numbers starting from 1 to 123,456,789 using the Formula only
(The Formula gave an instant result)
A ***flashing*** prompt to hit the <Esc> key restarts the program



Any entry that results in overflow is captured
A ***flashing*** prompt to hit the <Esc> key restarts the program