

(Test global variable)

We first declared a bool variable x, and an int variable y, and declared a non-void function f with two parameters (bool m and bool n) and returned type to be int, and declared a void function g with no parameters, and then declared a non-void (bool) function equal with two parameters (int a and int b).

In function main,

We first created local variable (bool a, bool d, int r), then called the function add to test the read and write statements, also the Add, and then we tested ifStmt and ifElseStmt, and then in whileStmt, we first assigned r to 5, and while r is greater than 0 And r is Not Equal to 3, we do an decrement to r, after completing the while loop, we tested whether the r is 0 through calling the function equal(r, 0), also wrote the output to the console, and then called the function f, to test whether a global variable can be used in function correctly, the final result will be wrote to the console, then we tested the Add, Mins, Mult, Div, and then we tested the Less, LessEqual, Greater, GreaterEqual operators.

In non-void (bool) function equal, we test whether two (int) parameters have the same value (test the Equal operator).

In void function add,

We requires tester to input two int, and will disp (write) the add result to the console (we removed the input cause it took too much time to convert to Assembly code).

In function f, we tested increment, Or operator, and IfElseStmt, return statement.