ORG 100 //

loop, LOAD A //beginning of loop and load A in the accumulator

ADD B //Add A + B (A is inside accumulator)

STORE C //Store the sum in C

LOAD A //Load A back in to the accumulator

SUBT one //A - 1 is now in the accumulator

STORE A //A = accumulator value

LOAD B //Load B back in to the accumulator

SUBT two //B - 2 is now in the accumulator

STORE B //B = accumulator vaue

LOAD A //LOAD A back into the accumulator

SUBT B //Subtract acc from B and put result in accu

SKIPCOND 800 //if A - B > 0 that means A >= B so stop(skip) loop

JUMP loop //restart from the beginning of the loop

HALT //Stop the Program

A, DEC 5 // A = 5

B, DEC 9 // B = 9

C, DEC 0 // C = 0

one, DEC 1 // one = 1

two, DEC 2 // two = 2