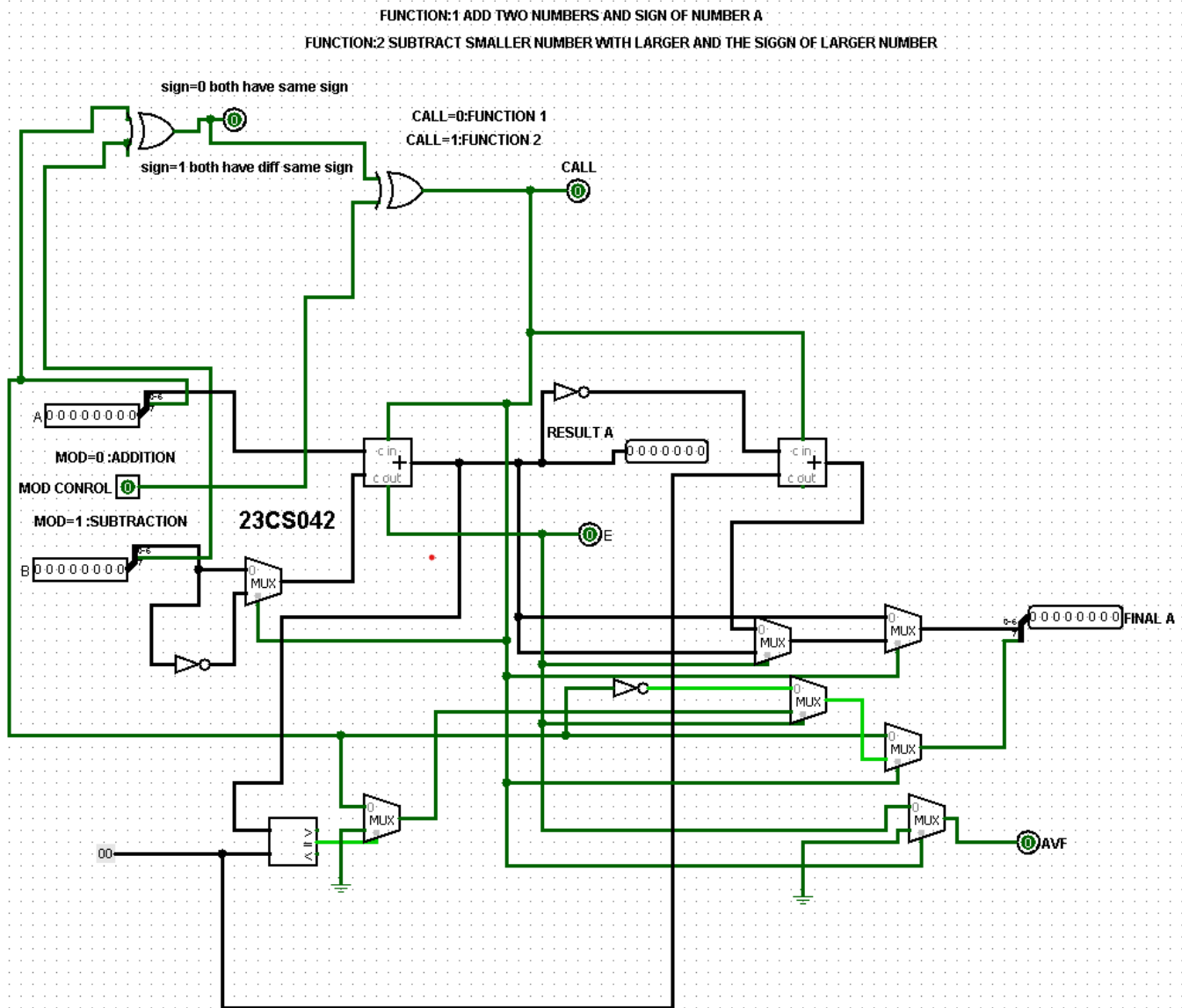


Date:

EXPERIMENT NO. 2

AIM: Implement a circuit in Logisim which perform Addition and Subtraction of sign number.

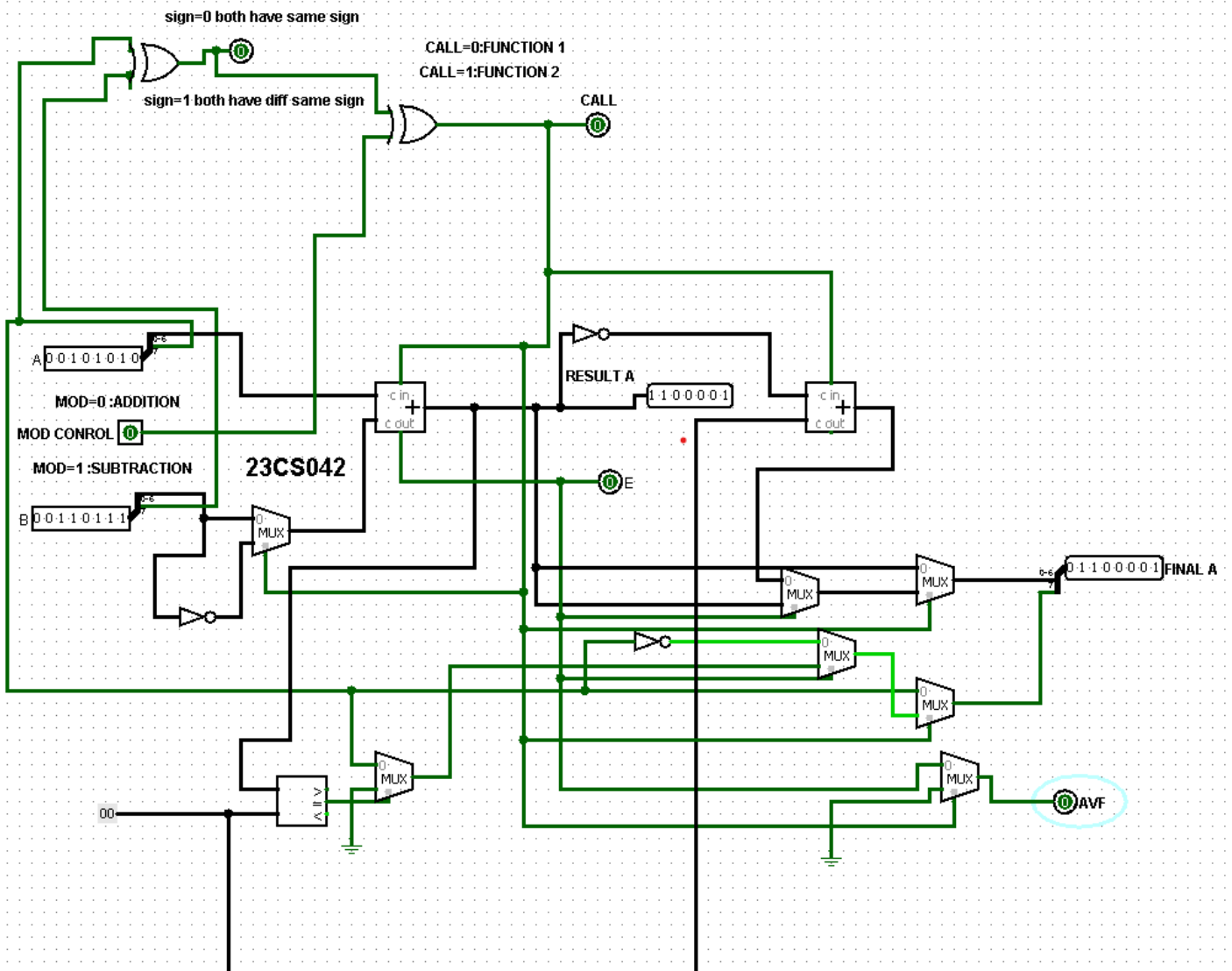
ALGORITHM:

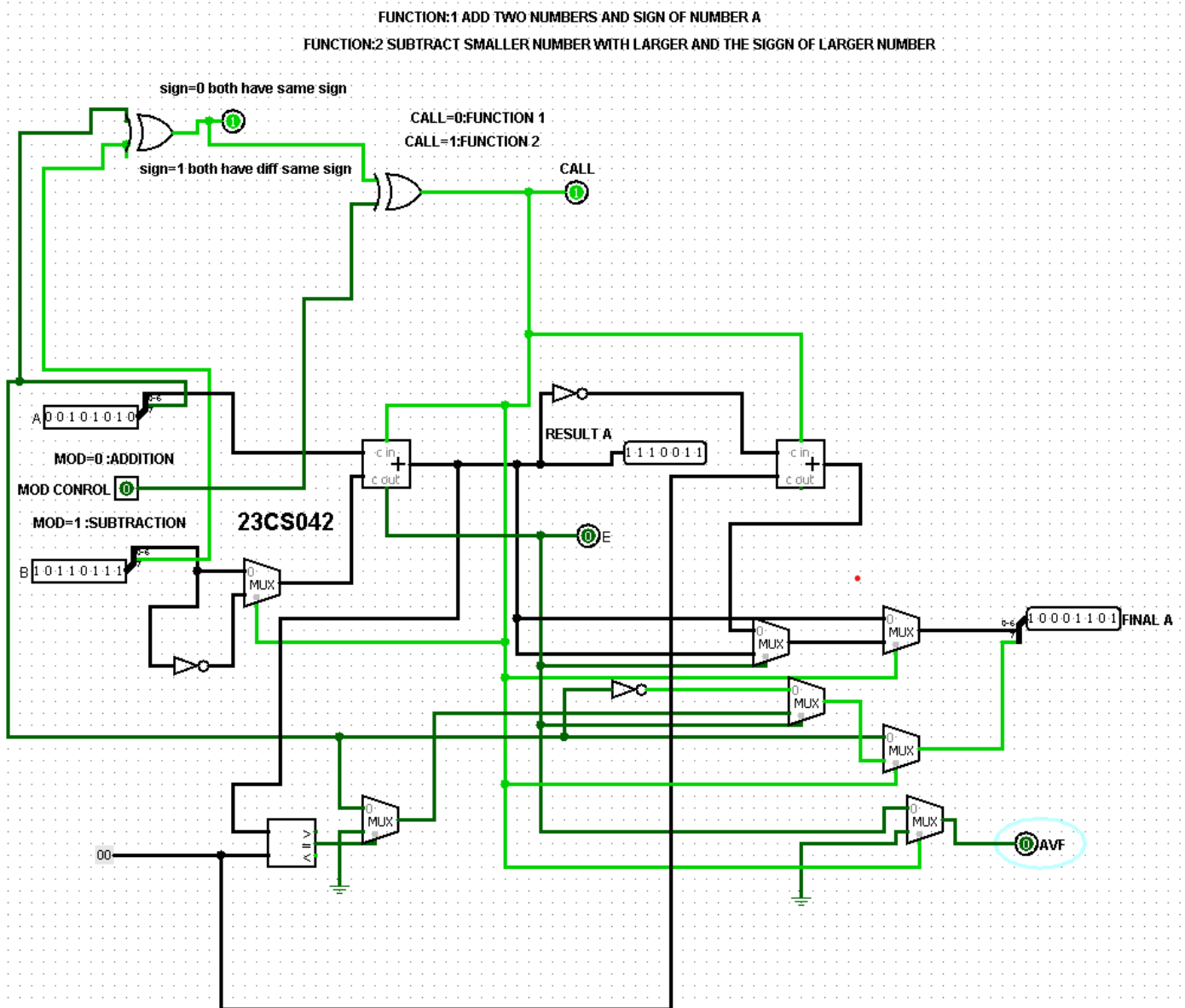
CIRCUITS:**OUTPUTS:**

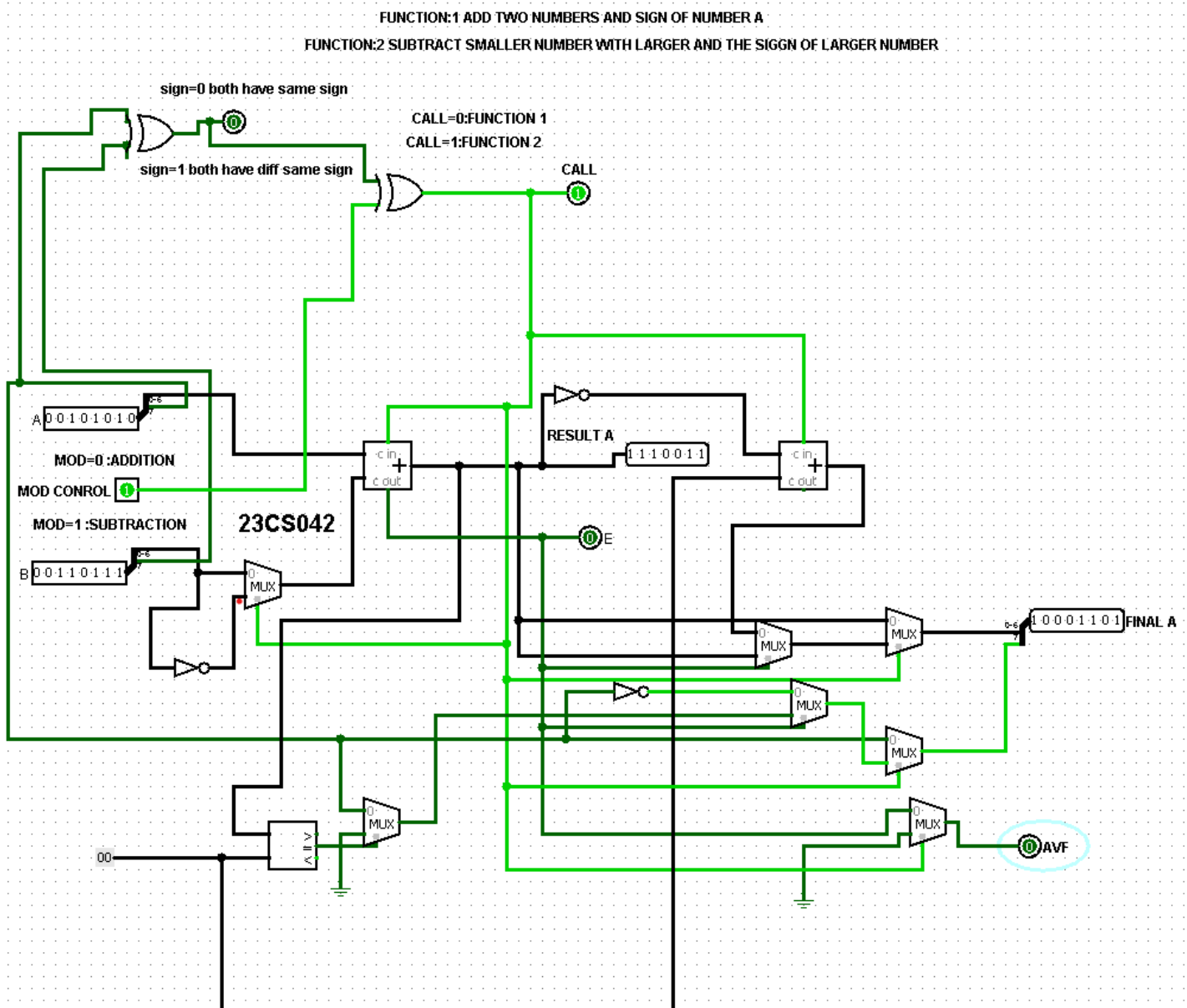
(+42)+(55)=(97) {(00101010)+(00110111)=(01100001)}
 (-42)+(-55)=(97) {(00101010)+(00110111)=(11100001)}
 (+42)+(-55)=(-11) {(00101010)+(10110111)=(10001101)}
 (-42)+(55)=(11) {(00101010)+(10110111)=(00001101)}
 (+42)-(-55)=(-11) {(00101010)+(10110111)=(10001101)}
 (-42)-(-55)=(11) {(00101010)+(10110111)=(00001101)}
 (+42)-(-55)=(97) {(00101010)+(00110111)=(01100001)}
 (-42)-(+55)=(-97) {(00101010)+(00110111)=(11100001)}

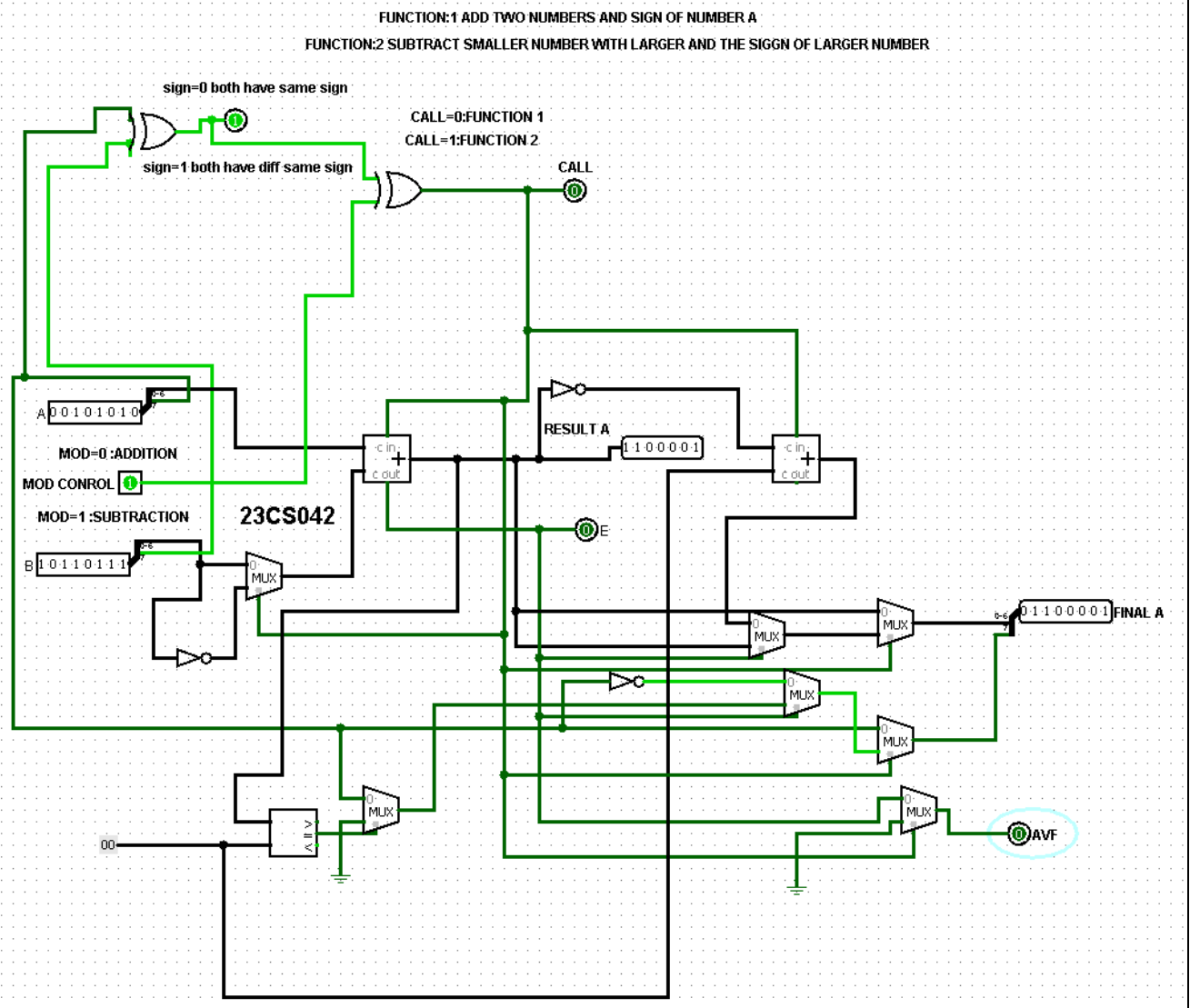
FUNCTION:1 ADD TWO NUMBERS AND SIGN OF NUMBER A

FUNCTION:2 SUBTRACT SMALLER NUMBER WITH LARGER AND THE SIGGN OF LARGER NUMBER



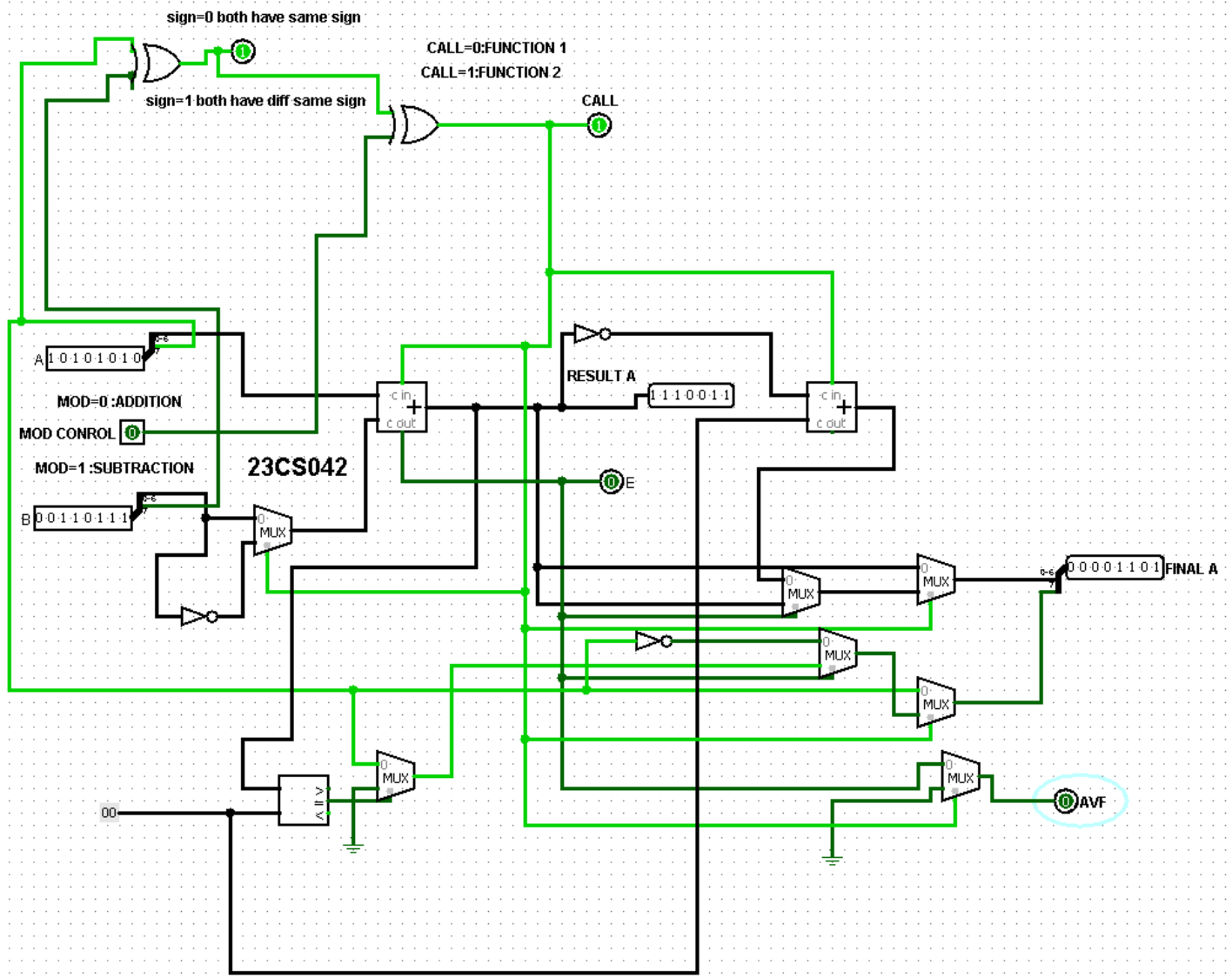


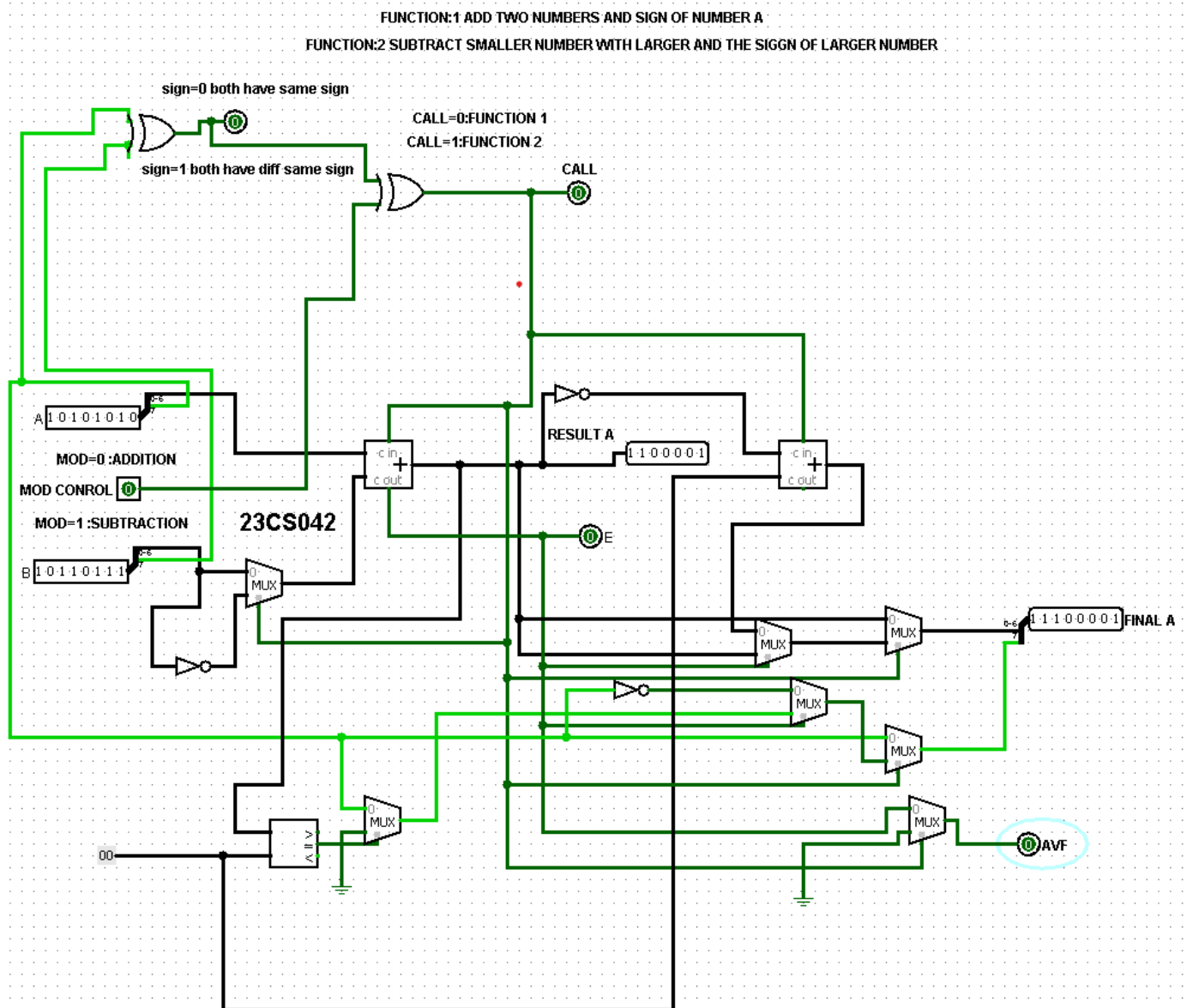


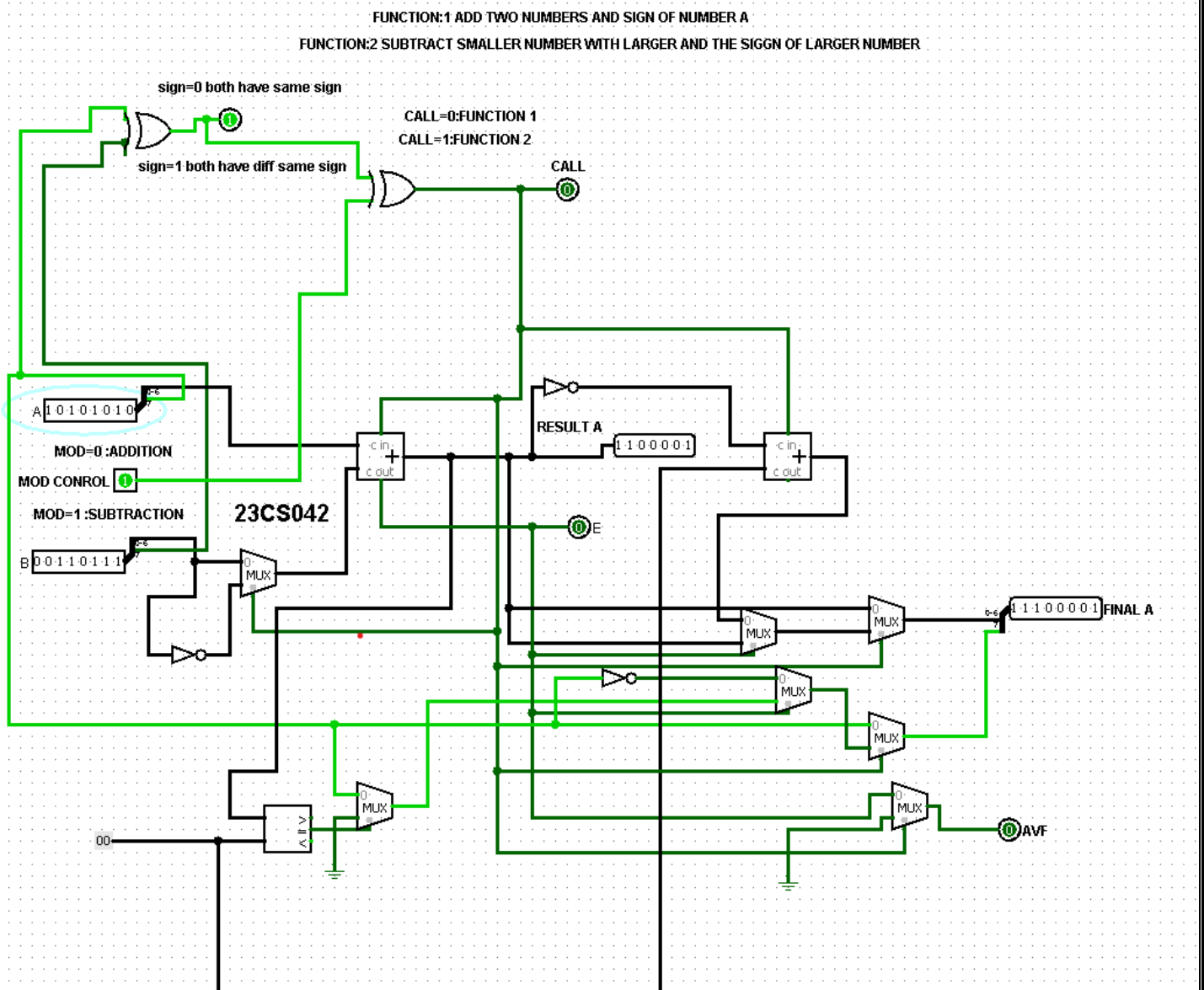


FUNCTION:1 ADD TWO NUMBERS AND SIGN OF NUMBER A

FUNCTION:2 SUBTRACT SMALLER NUMBER WITH LARGER AND THE SIGGN OF LARGER NUMBER

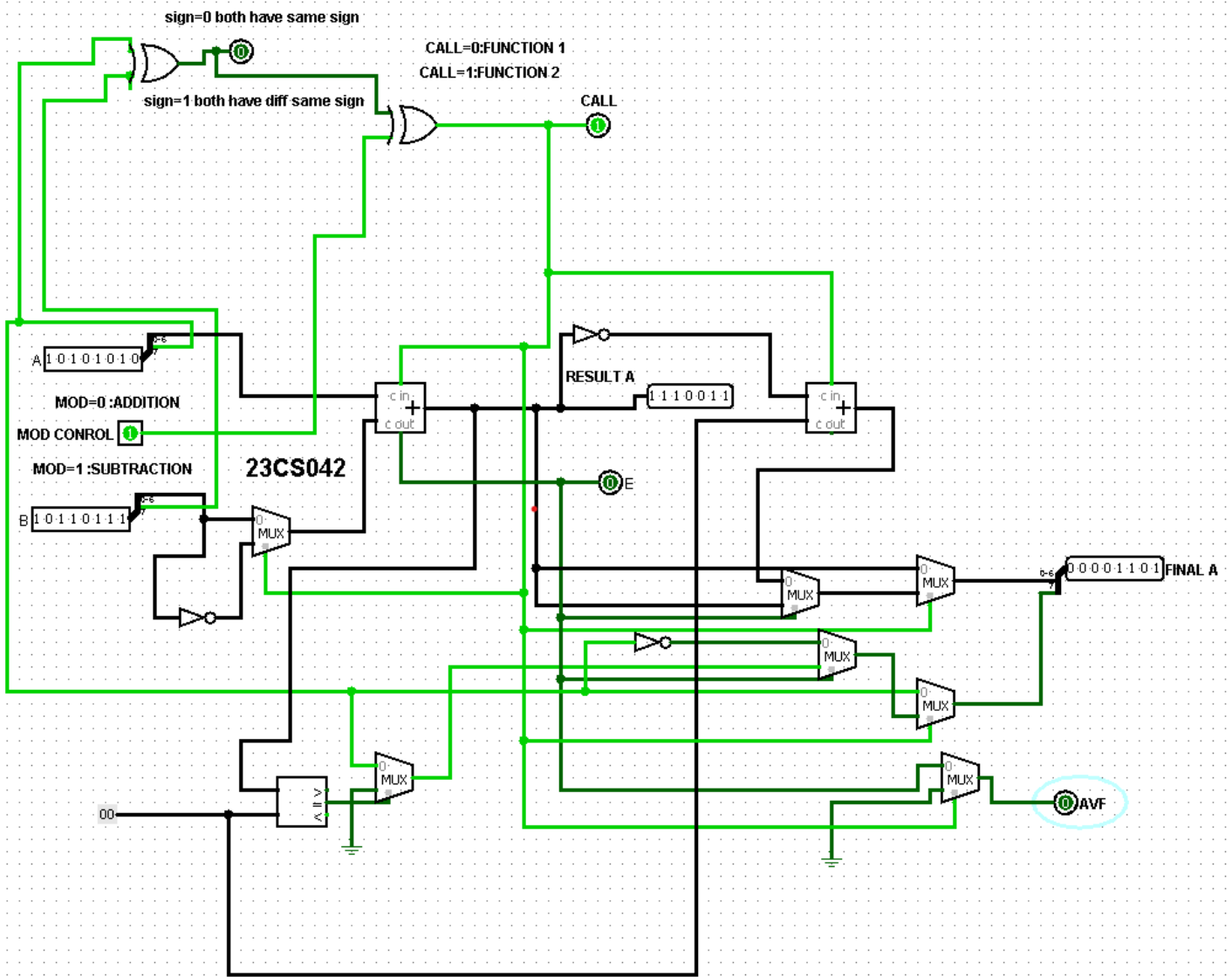






FUNCTION:1 ADD TWO NUMBERS AND SIGN OF NUMBER A

FUNCTION:2 SUBTRACT SMALLER NUMBER WITH LARGER AND THE SIGGN OF LARGER NUMBER



CONCLUSION: