# clearing all registers

clr $0

clr $1

clr $2

clr $3

# numbers being multiplied

addi $1, $0, number

addi $2, $0, number

# checking if number 2 is negative

andi $0, $2, 10000000

bnei $0, 10000000, continue

# getting 2’s complement of negative number 2

inv $2, $2

addi $2, $2, 1

# getting 2’s complement of 1st number

inv $1, $1

addi $1, $1, 1

continue:

# making reg 0 for it to hold answer

clr $0

# starting a counter

addi $3, $0, 0

# beginning the loop and going until the second number is hit

# answer is in $0

multiply:

add $0, $0, $1

addi $3, $3, 1

bne $3, $2, multiply

end: