// NAME: PIETRO ANGIOLELLA SN: 220378899

e1: DC "+"

e2: DC "-"

e3: DC "\*"

e4: DC "0"

ld a0, e1(x0) //+

ld a1, e2(x0) //-

ld a2, e3(x0) //\*

ld a3, e4(x0) //0

addi x1, x0, 48

sd x1, 0(sp)

addi sp, sp, -8

addi x1, x0, 42

sd x1, 0(sp)

addi sp, sp, -8

addi x1, x0, 45

sd x1, 0(sp)

addi sp, sp, -8

addi x1, x0, 4

sd x1, 0(sp)

addi sp, sp, -8

addi x1, x0, 3

sd x1, 0(sp)

addi sp, sp, -8

addi x1, x0, 43

sd x1, 0(sp)

addi sp, sp, -8

addi x1, x0, 2

sd x1, 0(sp)

addi sp, sp, -8

addi x1, x0, 1

sd x1, 0(sp)

addi sp, sp, -8

addi sp, sp, 8

ld x5, 0(sp)

addi sp, sp, 8

ld x6, 0(sp)

addi sp, sp, 8

ld x7, 0(sp)

loop1:

beq x7, x10, addsign

beq x7, x11, subsign

beq x7, x12, multsign

ebreak x0, x0, 0

addsign:

add x8, x5, x6

addi sp, sp, 8

ld x5, 0(sp)

addi sp, sp, 8

ld x6, 0(sp)

addi sp, sp, 8

ld x7, 0(sp)

sd x8, 0(sp)

addi sp, sp, -8

beq x0, x0, loop1

subsign:

sub x8, x5, x6

sd x8, 0(sp)

addi sp, sp, -8

addi sp, sp, 8

ld x5, 0(sp)

addi sp, sp, 8

ld x6, 0(sp)

addi sp, sp, 8

ld x7, 0(sp)

beq x0, x0, loop1

multsign:

mul x8, x5, x6

addi sp, sp, 8

ld x5, 0(sp)

addi sp, sp, 8

ld x6, 0(sp)

addi sp, sp, 8

ld x7, 0(sp)

addi sp, sp, 8

sd x8, 0(sp)

addi sp, sp, -8

beq x5, x0, loop1