2024\13-codegen-riscv\riscv-in-class-2023\data.asm

```
# f = (g + h) - (i + j)
# t6 = (t0 + t1) - (t3 + t4)

.data
g: .word 0
h: .word 10
i: .word 30
j: .word 40

result: .word 0

msg: .string "The result is :"  # .ascii

.text
la t0, g                 # la: load address
lw t0, 0(t0)     # lw: load word

la t1, h
lw t1, 0(t1)
add t2, t0, t1

la t3, i
lw t3, 0(t3)
la t4, j
lw t4, 0(t4)
add t5, t3, t4

sub t6, t2, t5

la t0, result
sw t6, 0(t0)     # sw: store word

li  a7, 4
la a0, msg
ecall

li  a7, 1
mv a0, t6     # add a0, t6, zero
ecall
```