Template Week 4 – Software

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Bonus point assignment – week 4

Like the factorial example, you can also implement the calculation of a power of 2 in assembly. For example you want to calculate 2^4 = 16. Use iteration to calculate the result. Store the result in r0.

Main:

mov r0, #1

mov r1, #2

mov r2, #4

Loop:

sub r2, r2, #1

mul r0, r1, r0

cmp r2, #0

bne Loop

End: