(1

MOV R2, #0x50000 -> MOV R2, #0xFF (immediate values can't be larger than 0xFF or 255d)

MOV R1, 255 -> MOV R1, #255

MOV 123, $0x50 \rightarrow MOV R0$, #0x50 (Rdest must be a register)

MOV R17, #25 -> MOV R0, #25 (we don't have R17 + R12 is the last register we use with MOV)

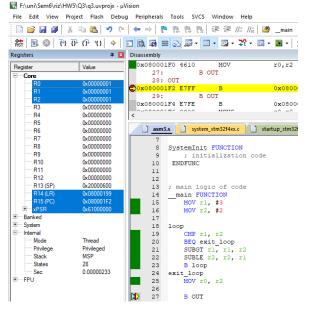
MOV R23, #0xF5 -> MOV R0, #0xF5 (as mentioned above)

(۲

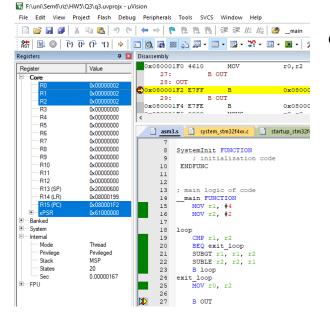
a) C = 1 (carry is generated out of the 32^{nd} bit)

b) C = 0

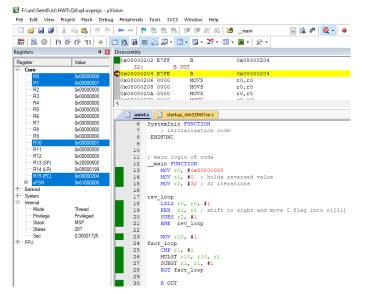
(٣



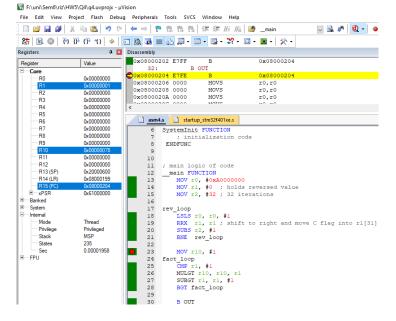
GCD(3,2)=1



GCD(4,2)=2



Reversed(0x80000000) = 0x00000001 Factorial(0x00000001) = 0x00000001

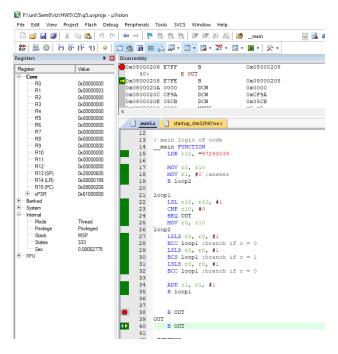


Reversed(0xA0000000) = 0x000000005

Factorial(0x00000005) = 0x0000000078

✓ Factorial(5) = 120

(R1 = 3) يس جواب بايد π شود (R1 = 3) $97243034 = 2_1011100101111100111110011010$



و) برای حل این سوال عددی در R0 تولید میشود که بیت i تا i آن برابر ۱ و بقیه ۰ هستند. سپس R0 با R1، R0 میشود و R0 برای حل این سوال عددی در R1 تولید میشود.

