This week, please still try to make sure that every student is able to run SPIM and knows how to debug with it.

You may then review

1. How to process the texts with SPIM, mainly the syscall, and what is an asciiz string

li $v0,4 # print an ASCIIZ string at $a0

la $a0,msg\_hello

syscall

1. Review the concept of stack:
   1. last in first out;
   2. the $sp register is used to keep track of the top of the stack;
   3. the stack is used to save things during function calls, by first subtracting $sp first then sw, then before returning, lw then adding $sp
   4. Each function call puts its own stuff on the stack, a function called last put its things on top, nice thing is that a function called last returns first in the function call chain, matching exactly the operations of stack
2. Go over the recursive function example again in Friday’s slides.

If there is additional time, please ask them to write a function to calculate the factorial of a positive number in 5 instructions.