

# CS 315-01 Lab RISC-V Strings Structs

Project 02 Exam Questions due tonight  
Wed Sep 17 11:59

Project 03 due Mon Sep 23 11:59pm

✓ strings

✓ hello world

review calling conventions

structs

Calling conventions

The diagram illustrates the state of registers during a function call. It shows the following components:

- `caller_saved`: A label with an arrow pointing to the `so-sll,sp` instruction.
- `Main() {`: The start of the function.
- `so-sll,sp`: The instruction to adjust the stack pointer. A horizontal line is drawn below it.
- `[foo_s(a,b)]`: The function call. An arrow points from this line down to the next instruction.
- `so-sll,sp`: The instruction to adjust the stack pointer again. An arrow points from this instruction down to the closing brace.
- `}`: The end of the function.

foo-s.s

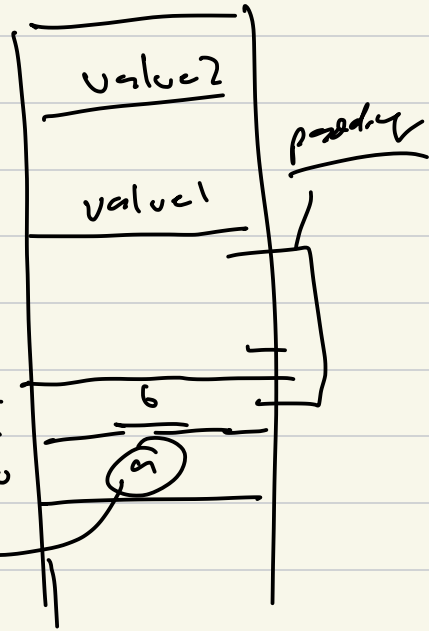
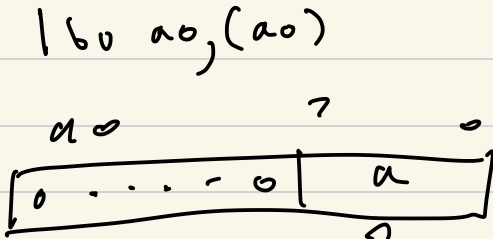
foo-s:

→ caller\_saved  
→ caller\_saved  
call bar-s  
→ caller\_saved

ret

regs

Memory



8 bits

struct foo-st 2

→ vint8-t a

vint8-t b

vint32-t v1

vint32-t v2

