

CS 315-01 RISC-V Memory and Functions

Lab 02 - solutions today

Lab 02 - Exam problems

Project 02 - posted due Mon Sep 18th 11:59pm

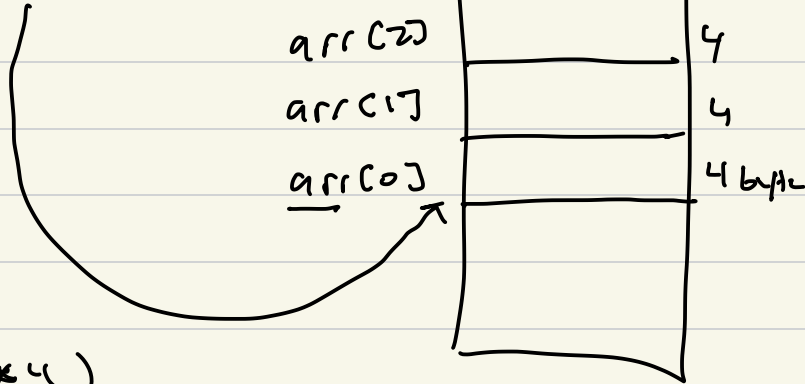
Project 03 - Exam problems due Wed Sep 20th 11:59pm

Lab 02 Solutions

sum_array/

a0 - int arr[]

↑
arr address



arr[i]

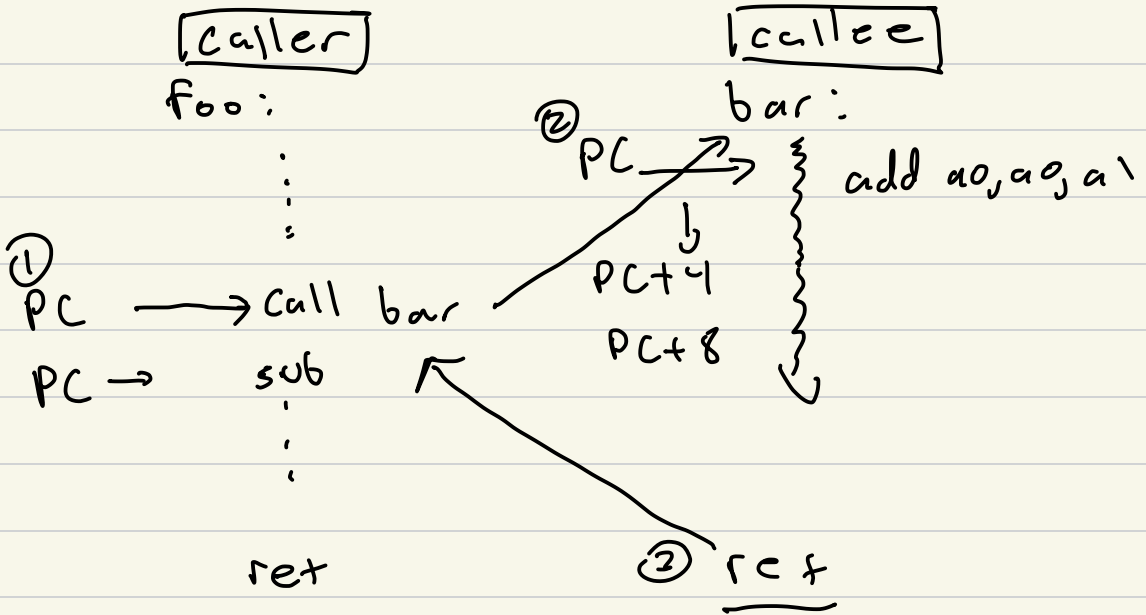
$$\text{arr} + (i * 4)$$

$$\underline{\text{a0}} + (i * 4)$$

Functions in RISC-V

a_0, a_1, a_2, \dots arguments
↓
64 bits

a_0 is the return value



return address (ra)

Call func

$ra = PC + 4$
 $PC = \text{addr of func}$

Stack

SP - stack pointer

