COMP1521 Week 4

Welcome!!!
Please sit down we shall start at 4:05

Overview

- Assignment 1 (Remember header comment)
- 2D_arrays
- functions
- structs

2D_arrays

```
# calculate &flag[row][col]
mul $t2, $t0, 12
add $t3, $t2, $t1
lb $aθ, flag($t3)
11 $v0, 11
syscall
```

Functions

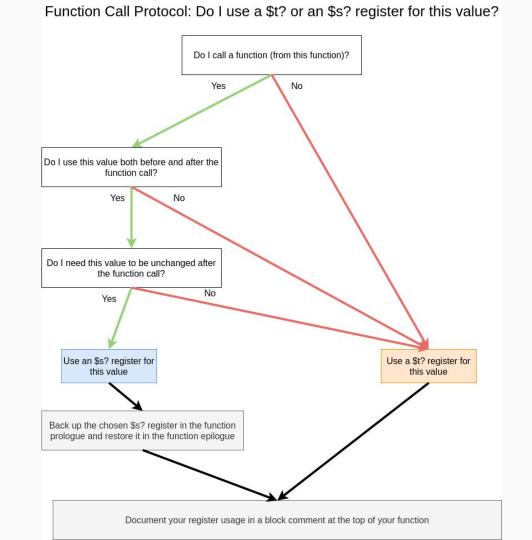
\$a - used to pass arguments into a function

\$v0 - used to return a value from functions

jal - used to call a function (jump to a function label and store the return address in \$ra)

Process

- 1. List registers I am using
- Complete the inside of the function
- Complete prologue and epilogue
- 4. Comments!



Prologue and Epilogue

Prologue (push things onto stack)

Things to push

- Return address (if another function in called within the current function) \$ra
- Any \$s0 registers used

Epilogue (pop things off stack and return)

Things to pop (in the same order you pushed them)

- Return address (if another function in called within the current function)
- Any \$s0 registers used

note: remember to begin and end your stack frames for each function

Code from tut

Feedback form





https://github.com/abbylxt/23T2-COMP1521-Tut/tree/main/W4

Code: Week4