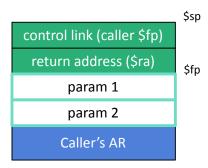
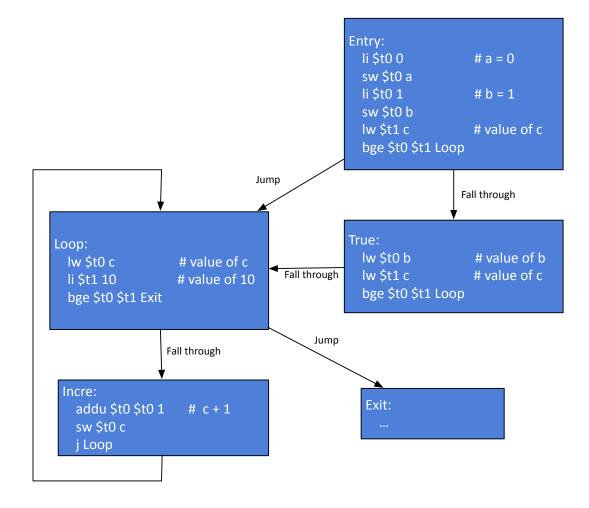
HOMEWORK 9

```
Question 1:
sw $ra \ 0(\$sp) # push $ra into stack
subu $sp $sp 4
sw \$fp \ 0(\$sp) \# push \$fp into stack
subu $sp $sp 4
addu $fp $sp 8 # update $fp
lw $t1 4($fp) # load b
lw $t0 8($fp) # load a
add $t0 $t0 $t1 # push a + b
sw $t0 0($sp)
subu $sp $sp 4
# exit
lw $v0 - 8($fp) # store the return value (a + b) in $v0
lw ra 0(fp) # restore return address to ra
move t0 fp \# store old fp address
lw fp - 4(fp) # restore caller's fp
move $sp $t0 # restore $sp
jr$ra # jump to return address
Convention:
```

- 1. \$v0 is used for return value
- 2. Parameters are stored as following



Question 2:



Question 3

t0 = 3

t1 = 2

t2 = 8

t3 = undefined

ra = 0x0

PC = 0x0