

MIPS Examples

```

        .text
        jal sub1
        add $t1, $v0, $zero
        jal sub1
        add $t2, $v0, $zero
        li $t3, 0
        beq $t2, $zero, lbl2
lbl1:   add $t3, $t3, $t1
        addi $t2, $t2, -1
        bgtz $t2, lbl1
lbl2:   add $a0, $t3, $zero
        li $v0, 1
        syscall
        li $v0, 10
        syscall
        .data
prmp:   .asciiz "Enter an int:\n"
        .text
sub1:   la $a0, prmp
        li $v0, 4
        syscall
        li $v0, 5
        syscall
        jr $ra

```

```

.data
NoDiff: .asciiz "No Difference"
.text
jal rdInt
move $t1, $v0
jal rdInt
move $t2, $v0
beq $t1, $t2, prtND
li $v0, 1
slt $t3, $t1, $t2
beq $t3, $zero, t1GT
move $a0, $t2
beq $zero, $zero, print
t1GT: move $a0, $t1
beq $zero, $zero, print
prtND: la $a0, NoDiff
li $v0, 4
print:syscall
li $v0, 10
syscall
.data
prmp: .asciiz "Enter an int:\n"
.text
rdInt: la $a0, prmp
li $v0, 4
syscall
li $v0, 5
syscall
jr $ra

```