

CDA 3103 – Computer Organization (Spring 2005)

Quiz # 3

Last Name : _____ First Name : _____
NID : _____

Question # 1: Write MIPS assembly for the following code.

```
If (Temp3 == 0)
{
    A = 0 - Temp3;
    Temp1 = Temp1 + 1
}
else
{
    A = 0 - Temp3;
    Temp1 = Temp1 + 1
}
```

Answer

MIPS assembly code

Assuming

a0	=	A
a1	=	Temp1
a2	=	Temp2
a3	=	Temp3

```
        bgtz $a3, $L2
        subu $a0,$zero,$a3
        add $a1,$a1,1
        j $PRINT
$L2:    move $a0,$a3
        add $a2,$a2,1
$PRINT:
```