

Problems 4.31.5, 4.31.6, 4.31.7 from the 6th edition text.

Use these solutions for 4.31.3 and 4.31.4 in your answers:

4.31.3:

```
    beqz x13, DONE
    li x12, 0
    jal ENT
TOP:
    slli x5, x12, 3
    add x6, x10, x5
    ld x7, 0(x6)
    ld x29, 8(x6)
    addi x12, x12, 2
    sub x30, x7, x29
    add x31, x11, x5
    sd x30, 0(x31)
ENT:
    bne x12, x13, TOP
DONE:
```

4.31.4:

```
    beqz x13, DONE
    li x12, 0
TOP:
    slli x5, x12, 3
    add x6, x10, x5
    ld x7, 0(x6)
    add x31, x11, x5
    ld x29, 8(x6)
    addi x12, x12, 2
    sub x30, x7, x29
    sd x30, 0(x31)
    bne x12, x13, TOP
DONE:
```