

Homework 3

Monday, October 18, 2021

12:12 PM

#1 (A) Add x1, x7

(B) Ldr x0, [x16, 16]

(C) Sub x0, x5, x11
CB x0, End:P

(D) Lsr x9, x9, 15

#2 (A)

| | | | |
|-----|------|-----|-----|
| 32 | 0 | x10 | x9 |
| 7c0 | 0x20 | 0x0 | 0xA |

1111000000 00010000 00 01010 01001
F8020149

(B) Addi 8 x6 x9
1001000100 0x8 0x6 0x9
0x910020c9

#3 (A) D type → Add x0, x0, x0

(B) CBZ x20, 0xB5A

#4 (A) left shift 4 bits Val x0
0x1234567ABA B E F E F 8

(B) 0x0000 0000 0000 0545

#5 (A) Subi x10, x3, 5
add x0, x1, x10

(B) Sub x9, x3, x4
Lsl x9, x9, x3 // mult x8
add x11, x6, x9
Ldr x10 [x10, 0]
Stdr x10 [x7, 64]

(C) Sub x10, x0, x1
CBNZ 10, else
Addi x4, x4, 1
bend;
else:
Addi x4, x4, x2
end;