21800612 Keenho Lim 9122 Computer Architecture and granization. Section 1.

2.9) SII \$t0, \$53,2

SII \$t1, \$54,2

add \$t0, \$t0,\$56

add \$t1,\$t1,\$56

(w \$t0, 0(\$t0)

(w \$t1, 0(\$t1)

add \$t2, \$t1,\$t0

Sw \$t2, 32(\$57)

2.14).

0000 0010 0001 0000 1000

Coop colo 6000  $t_{avo}$ 00000  $t_{avo}$ 00000  $t_{avo}$ 00000  $t_{avo}$ 100000  $t_{avo}$ 100000  $t_{avo}$ 100000  $t_{avo}$ 100000  $t_{avo}$ 100000  $t_{avo}$ 

.'. odd \$50,\$50,\$50

2.16)  $op = 0 \Rightarrow 000000 \quad (6bits)$ .  $rs = 3 \Rightarrow 00010 \quad (5bits)$   $rt = 2 \Rightarrow 00010 \quad (5bits)$   $rd = 3 \Rightarrow 00011 \quad (5bits)$   $dant = 0 \Rightarrow 00000 \quad (5bits)$   $funct = 34 \Rightarrow 100010 \quad (6bits)$ 

(cas asso one cole ast loss sole cole)

2.17) op rs rt. constant 66its 56ts 56its 166its

(1000 1100 0010 0010 0000 0000 0000 0100)

9.23) StD = D + DOIDOIDOO(I greater than Door \$t2 will be Iblue \$t2, \$0, £LSE(2  $$t2 \neq 0$  is time (\$t2=1).

1: 600 to £LSE£LSE: addi \$t2, \$t2, 2.

4: \$t2 = \$t2 + 2= 1 + 2= 3

## Scanned with CamScanner

LOOP: stt \$t2,\$0,\$t1

(\$\$t2 = result of \$0 < \$t1

beq \$t2,\$0, Dolve.

Gif \$t2 is 0 jump to Dove.

Subi \$t1,\$t1,1

(\$\$t1 = \$t1-1

addi \$\$2,\$\$2,2

Gjump to Loop.

Gjump to Loop.

2.26.1). LOOP will be executed for 10 times

6 \$51 will be added 2 for 10 times

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2.26.2)

While (1) {

temp = 0 < i? 1:0 ;

if (temp ==0) break;

ī -= 1;

β += 2;

}

2.26.3)

5N+2
5 Thstructions ×N times
+ 2 Thstructions for
Checking

FOR1:

beg \$t0, \$50, DONE

More \$t1, \$zero

more \$t4, \$52

FOR2:

DONE: