2. 1, 2, 3, 4, 5, 6, 7, 9, 10, 12, 18, 21, 22, 26, 29, 38, 41 SYDNEY CADY

$$\frac{2.2}{\text{add }f,g,h} \qquad f = g+n+i$$

9.3

B[8] =
$$A[i-j]$$
 f, g, h, i, j - \$50, \$51, \$52, \$53, \$54
Sub \$t0, \$53, \$54
add \$t0, \$50, \$t0
IN \$t1, 16 (\$t0)
SW \$t1, 32 (\$57)

2.6.2

2.12.
$$450 = 0.86000000$$
 $$5] + 00000000$

2.12. 2

0 verflow

2.12. 2

0 verflow

2.12. 2

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12. 18,3

more ng immidate data could be reduced it can have higher very lookup plus instr. count requires never bits to be stored.

Pinstres would need I very

2.21

not \$t1, \$t2 -> NOV \$t1, \$t2, \$t2

222

A = C (4)

IW \$t3, 0 (\$51) \$11, \$t3, 4

2.26

 $\frac{2.261)}{\$+1=10} \ \$\$\$\$=20$

2.26,2

add; \$t2, \$t2, -1 beq \$t2, \$9, 100p

2.26.3

5×N 2

$$\frac{2.29}{\$ + 1 = i}$$

$$\$ + 52 = resu + 1$$

$$\$ + 50 = Memarran$$

2.38

2.47

70/ artmetic 10% load/store 20% branch

2.47.1

avith: 2 cycles 110d/store: 6 cycles branch: 3 cycles

$$\frac{(70 \times 2) + (6 \times 10) + (3 \times 20) = 2.6}{100}$$

2.47.a

25% improvement performance, wood/store 4, wonch/)
1.25(70*2) + 60 + 60 = 1.07

2.47.3 50% & perf, wad store 4, wanch p 0.5 (70.2) + 60+60 = p.14