Bradley Grosc

9)
$$P1 = \frac{3.10^{\circ}}{2.7} = 1.11.10^{\circ}$$
 instruction per second $\frac{1}{5}$ $P1 = 2.7$ CPI $P2 = \frac{4.10^{\circ}}{4} = 1.00.10^{\circ}$ instructions per second $P2 = 4$ CPI

Therefor Pl is faster

c)
$$\frac{10^4}{1.11\cdot10^9} = 9E-6$$
 seconds for P1
 $\frac{10^4}{1\cdot10^9} = 1E-5$ seconds for P2

$$\frac{1700}{d} = 2.125$$

$$\frac{1700}{500 + 150 + 50 + 00} = 2.125 CPI$$

Tine: 1325 - 6.605E-7 Seconds 6.625E-7 = 321, Speed up

leaf - procedure:

add \$40, \$40, \$41 addi \$41, \$40, -2 add \$40, \$40, \$41 move \$v0, \$40

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$$\begin{array}{c} -37.0635 \\ = \text{Sign} = 1 \\ 2^{4} < 27 \le 2^{5} \\ 50 \text{ 4+127} = 131 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 & 1 \\ \hline \\ 120 & 64 & 51 & 6 & 6 & 4 & 1 \\ \hline \\ 120 & 64 & 64 & 64 & 64 & 64 & 64 \\ \hline \\ 120 & 64$$