

\_\_\_\_ 25 WRITING

\_\_\_\_ 16 writing style

\_\_\_\_ 4 introduction presents single theme, appropriate to lab (why should the reader care?)

\_\_\_\_ 2 introduction outlines structure of report (road map)

\_\_\_\_ 2 paper's theme reflected in structure of report

\_\_\_\_ 4 conclusion pulls together paper, reiterates theme

\_\_\_\_ 3 paragraphs have clear point, well-organized

\_\_\_\_ 1 provide adequate transition from section to section

\_\_\_\_ 4 organization and structure of report

Is the structure apparent (for example, are sections well marked?)

Is the structure logical?

\_\_\_\_ 5 spelling, grammar, sentence structure

\_\_\_\_ 27 CODE

\_\_\_\_ 20 correct code (4 points for adequate testing)

\_\_\_\_ 7 clear code (appropriate comments, clear names, fixed-width font, indented properly, what does each procedure compute? and how?)

\_\_\_\_ 20 ANALYSIS OF ALGORITHMS: Correct  $\Theta$  analysis of runtime, and clearly justified.

\_\_\_\_ 5 book's sum-of-divisors

\_\_\_\_ 5 improved sum-of-divisors

\_\_\_\_ 5 ratio procedures using book's sum-of-divisors

\_\_\_\_ 5 ratio procedures using improved sum-of-divisors (technique on page 81 properly applied.)

\_\_\_\_ 28 DATA COLLECTION AND CORRELATION WITH ANALYSIS

\_\_\_\_ 8 collected the data

\_\_\_\_ 12 reasonably presented - table (or, perhaps, a graph)

-2 axes or table headings not very clear

-1 units not specified

-2 timing data for two versions of sum-of-divisors placed in separate tables

-1 too many significant figures

\_\_\_\_ 8 data tied to the algorithmic analysis (why should the timing ratios be what they are?)

\_\_\_\_\_ **TOTAL**