MCS-177  
Mike Hvidsten and San Skulrattanakulchai

Sum-of-divisors lab grading  
Name: ____________________

**17 WRITING**

- **10 writing style**
  - 2 introduction presents single theme, appropriate to lab (why should the reader care?)
  - 1 introduction outlines structure of report (road map)
  - 1 paper’s theme reflected in structure of report
  - 2 conclusion pulls together paper, reiterates theme
  - 3 paragraphs have clear point, well-organized
  - 1 provide adequate transition from section to section

- **2 organization and structure of report**
  Is the structure apparent (for example, are sections well marked?)
  Is the structure logical?

- **5 spelling, grammar, sentence structure**

**35 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?)**

- **8 descriptions of code & testing, explanation of why code works**

**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**