

This file contains the exercises, hints, and solutions for Chapter 2 of the book "Introduction to the Design and Analysis of Algorithms," 3rd edition, by A. Levitin. The problems that might be challenging for at least some students are marked by $\triangleright$; those that might be difficult for a majority of students are marked by $\blacktriangleright$.

Exercises 2.1

- For each of the following algorithms, indicate (i) a natural size metric for its inputs, (ii) its basic operation, and (iii) whether the basic operation count can be different for inputs of the same size:
 - computing the sum of n numbers
 - computing $n!$
 - finding the largest element in a list of n numbers
 - Euclid's algorithm
 - sieve of Eratosthenes
 - pen-and-pencil algorithm for multiplying two n -digit decimal integers
- Consider the definition-based algorithm for adding two $n \times n$ matrices. What is its basic operation? How many times is it performed as a function of the matrix order n ? As a function of the total number of elements in the input matrices?
 - Answer the same questions for the definition-based algorithm for matrix multiplication.
- Consider a variation of sequential search that scans a list to return the number of occurrences of a given search key in the list. Will its efficiency differ from the efficiency of classic sequential search?
- Glove selection* There are 22 gloves in a drawer: 5 pairs of red gloves, 4 pairs of yellow, and 2 pairs of green. You select the gloves in the dark and can check them only after a selection has been made. What is the smallest number of gloves you need to select to have at least one matching pair in the best case? in the worst case?
 - Missing socks* Imagine that after washing 5 distinct pairs of socks, you discover that two socks are missing. Of course, you would like to have the largest number of complete pairs remaining. Thus, you are left with 4 complete pairs in the best-case scenario and with 3 complete pairs in the worst case. Assuming that the probability of disappearance for each

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