

of the 10 socks is the same, find the probability of the best-case scenario; the probability of the worst-case scenario; the number of pairs you should expect in the average case.

5. a.> Prove formula (2.1) for the number of bits in the binary representation of a positive integer.

b.> Prove the alternative formula for the number of bits in the binary representation of a positive integer n :

$$b = \lceil \log_2(n + 1) \rceil.$$

c. What would be the analogous formulas for the number of decimal digits?

d. Explain why, within the accepted analysis framework, it does not matter whether we use binary or decimal digits in measuring n 's size.

6. Suggest how any sorting algorithm can be augmented in a way to make the best-case count of its key comparisons equal to just $n - 1$ (n is a list's size, of course). Do you think it would be a worthwhile addition to any sorting algorithm?
7. Gaussian elimination, the classic algorithm for solving systems of n linear equations in n unknowns, requires about $\frac{1}{3}n^3$ multiplications, which is the algorithm's basic operation.

a. How much longer should you expect Gaussian elimination to work on a system of 1000 equations versus a system of 500 equations?

b. You are considering buying a computer that is 1000 times faster than the one you currently have. By what factor will the faster computer increase the sizes of systems solvable in the same amount of time as on the old computer?

8. For each of the following functions, indicate how much the function's value will change if its argument is increased fourfold.

$$\text{a. } \log_2 n \quad \text{b. } \sqrt{n} \quad \text{c. } n \quad \text{d. } n^2 \quad \text{e. } n^3 \quad \text{f. } 2^n$$

9. Indicate whether the first function of each of the following pairs has a smaller, same, or larger order of growth (to within a constant multiple) than the second function.

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SJ Ball



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