

Errata in the Exercises
An Introduction to Data Structures and Algorithms
J. A. Storer, Birkhäuser / Springer

#3, Solution A: $c \leq 1/100$ should be $c \leq 100$.

#4, Solution F: $\log_2(n)$ and $n^{1/2}$ cross at $n=2$ and $n=4$, and then not again; so $a=4$, $b=1$ suffices. Without calculus, since $\log_2(x) < x$, $n \log_2(n)^2 = n(2 \log_2(n^{1/2}))^2 < 4n(n^{1/2})^2 = 4n^2$ and $a=1$, $b=4$ suffices.

#4, Solution G: Although this is true, $b = 1$ suffices.

#23: The *repeat* loop should go until $flag=0$.

#58b: "became half" should be "became a quarter".

#89: In Part E i should be n , in Part J " $(1/5)x^5+L$ " should be " $(1/5)x^5-\dots$ ", and in the last three bullets of Part J there is a missing exponent of n in the second term, and by using this second term, the last bullet can be $b(n) > 0.7n + \log_2(n) + 2.4$, and so $L(n) < n$ for sufficiently large n .

#92a,b: h should be initialized to 0 if v is a leaf or ∞ otherwise

#120b: Count only comparisons with $A[i]$, and "twice" should be "2.5 times".

#138: $W[n+2]$ should be $W[m+2]$.

#139b: " $\alpha(i,j)$ can be computed from $\alpha(i+1,j)$ " should be " $\alpha(i,j+1)$ can be computed from $\alpha(i,j)$ ".

#183: The root may have between 2 and J children; in part a, "K and J vertices" should be "K and J children".

#202: The inverse of f should be f^{-1} , not f^d .

#219: Portions of lines of the left Kuratowski graph are missing (it is a clique of size 5); also, this problem assumes that the graph is connected and has no self-loops.

#222: It's ok for two lines to cross at a point even if original graph is planar, $O(n(\log(n)^2))$ should be $O(n(\log(n)^2))$, the area is 30 not 42 (6 high by 5 wide), "an" should be "and" in the hint.

#228, in the for loop: "DFS should be non-recursiveDFS".

#246b: Assume all vertex names and *edge weights* use $\log(n)$ bits.

#301: On the last line, the three '+'s should be '='s.