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 \( \text{flag}=0 \).

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

#89: In Part E i should be \( n \), in Part J "\((1/5)x^2+L\)" should be "\((1/5)x^2\ldots\)"; 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 \( \infty \) 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 \( f^t \).

#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.