Errata for
“Combinatorics: The Art of Counting”
(Revised September 1, 2023)

In the list that follows p/l (respectively, p//l) refers to the lth line from the top (respectively, bottom) of page p, ignoring figures. Also, $A \leftarrow B$ means $A$ is to be replaced by $B$.

3//17 set of tiles $\leftarrow$ sequence of tiles
3//10 $T_0 \leftarrow \#T_0$
3//9 $T_1 \leftarrow \#T_1$
17
22/9–10 Let $i$ be the smallest such index and let $j$ be the first index after $i$ where repetition occurs. $\leftarrow$ Let $j$ be the smallest index such that $v_j$ equals an earlier vertex in the sequence and let $v_i$ be that earlier vertex.
28//2 std $\sigma \leftarrow$ std $\sigma'$
37/16–17 bijection, that is, when $n = k \leftarrow$ bijective and $n = k$ are positive integers
49/6 Rogers-Remanujan $\leftarrow$ Rogers-Ramanujan
47//11 andis $\leftarrow$ is
59/8 Gessle $\leftarrow$ Gessel
61, two lines above Proposition 2.6.1: matrix $C(G) \leftarrow$ matrix $C = C(G)$
69/2 Gessle $\leftarrow$ Gessel
79/13 We induct on $k$ where the case $k = 0$ is left to the reader. If $k > 0 \leftarrow$ We do a double induction on $k, l$ where the cases $k = 0$ and $l = 0$ are left to the reader. When $k, l > 0$
82/18 the that range $\leftarrow$ that the range
84/15 for any $n \leftarrow$ for $n = 1$
85/9 $n > N \leftarrow k > N$
100/16 to the enumerating $\leftarrow$ to enumerating
102//17 $A \supseteq B \leftarrow A \not\supseteq B$
104/11 Exercise 14(b) of Chapter 1 $\leftarrow$ Exercise 19(b) of Chapter 2
104/14 $\phi^{-1}(O') = 1 \leftarrow \#\phi^{-1}(O') = 1$
104/15 $\phi^{-1}(O') = 2 \leftarrow \#\phi^{-1}(O') = 2$
104/17 $\phi^{-1}(O') = 2 \leftarrow \#\phi^{-1}(O') = 2$
104/21 $\phi^{-1}(O') = 2 \leftarrow \#\phi^{-1}(O') = 2$
109//4 Use part (b) $\leftarrow$ Use parts (a) and (b)
110//6 two way $\leftarrow$ two ways
113//15 $b > \min B_j \leftarrow b > \min B_{i+1}$
114/1–9 Throughout this exercise, one should use the inversion statistic, inv, rather than the major index, maj.
120//15 $\pi_k \leftarrow \pi_{k+1}$
120//14 $k$ is odd $\leftarrow k$ is even
120//10 $k$ is odd $\leftarrow k$ is even
120//9 even $k \leftarrow$ odd $k$
136/14 show that $\leftarrow$ show that, for $n \geq 1$, 
136/16 show that $\leftrightarrow$ show that, for $n \geq 0$,
143/5 upper-order ideals $\leftrightarrow$ Upper-order ideals
145/13 $X/Y \leftrightarrow Y/X$ (in two places)
150/10 finite $\leftrightarrow$ finite, nonempty
151/10 $z, y, z \leftrightarrow x, y, z$
172/2 right-hand $\leftrightarrow$ bottom
173/14 $y \in I(x) \leftrightarrow y \in I(X)$
177/8 $12(c) \leftrightarrow 12(a)$
180 & ff Use $f_\phi$ for $F_\phi$ so there can be no confusion with the factorial function of $P$.
182/18 Add at the end of the sentence: for $s$ with real part greater than 1.
192/17 function $\leftrightarrow$ which is an analytic continuation of the series definition of $\zeta(s)$
194/3 $a$ poset $P \leftrightarrow$ a finite poset $P$
197/2 we say $\leftrightarrow$ we saw
205/5 since cycles commute $\leftrightarrow$ since disjoint cycles commute
224/10 Gessle $\leftrightarrow$ Gessel
227/14 Gessel $\leftrightarrow$ Gessel
231/14 to be replace $\leftrightarrow$ to be replaced
231/17 to be replace $c':=c \leftrightarrow c:=c'$
237/1 $x^{\text{des } \pi} \leftrightarrow x^{\text{des } \pi} + 1$
238/13 Note $\leftrightarrow$ Recall that linear extensions were defined in Section 5.5. Note
240/7 (7.23) yields. $\leftrightarrow$ (7.23) yields
242/5 $r_{\pi_k} \leftrightarrow r_{\pi_k}(P_{k-1})$
245/16 $P_{k-1} \leftrightarrow P_{k-1}$, assuming $j \geq 2$. When $j = 1$, a similar proof will work
244/14 $stU \leftrightarrow shU$
268/17 $7M_{121} \leftrightarrow M_{121}$
269/10 impose by $\alpha \leftrightarrow$ imposed by $\alpha$
278/7 $\sigma \in \mathfrak{S}_n(\Pi) \leftrightarrow \sigma \in \mathfrak{A}_n(\Pi)$
278/14 $\sigma \in \mathfrak{S}_n(\Pi) \leftrightarrow \sigma \in \mathfrak{A}_n(\Pi)$

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