

## Errata and Suggestions for Improvement from the translators

- p. 13, Exercise 11:  $k$ th powers  $\mapsto$  powers of  $k$
- p. 19, line 8 $\uparrow$ : Chapter 5  $\mapsto$  Chapter 6
- p. 21, Exercise 30: fourth Fibonacci number  $\mapsto$  fifth Fibonacci number
- p. 46, Exercise 72:  $n \geq n_m \mapsto n \leq n_m$
- p. 58, Exercise 84: missing the difficulty rating
- p. 59, line 2 $\uparrow$ :  $+\left(\frac{1}{8}(n+1)\dots \mapsto +\sum_{n \geq 0} \left(\frac{1}{8}(n+1)\dots$
- p. 59, line 1 $\uparrow$ :  $+\sum_{n \geq 0} \left(-\frac{1}{16}q^{2n} + \frac{2}{9}q^{3n} + \dots \mapsto +\sum_{n \geq 0} \left(\frac{2}{9}q^{3n} + \dots$
- p. 60, line 2:  $+\left(\frac{1}{8}\left(\frac{n}{2} + 1\right)\dots \mapsto +\sum_{n \geq 0} \left(\frac{1}{8}\left(\frac{n}{2} + 1\right)\dots$
- p. 60, line 3:  $+\sum_{n \geq 0} \left(-\frac{1}{16}q^{2n} + \frac{2}{9}q^{3n} + \dots \mapsto +\sum_{n \geq 0} \left(\frac{2}{9}q^{3n} + \dots$
- p. 60, line 5:  $[-\frac{1}{16}, \frac{17}{36}] \mapsto [0, \frac{17}{36}]$
- p. 60, lines 9, 10:  $(n+4) \mapsto (n+3)$
- p. 60, line 10:  $(n^2 + 23n + 85) \mapsto (n+4)(n+19)$  or  $(n^2 + 23n + 76)$
- p. 61, Eqn (6.15): (6.15)  $\mapsto$  (6.12) (The equation (6.15) is the identity with numbering next to (6.11).)
- p. 62, line 3: It would be better to include the definition of the notation  $h|j$ .
- p. 72, line 6:  $+q^{n-j} \binom{n-1}{j} \mapsto +q^j \binom{n-1}{j}$
- p. 83, lines 5–6: (8.13) and (8.14)  $\mapsto$  (8.16) and (8.16b) (Here Equation (8.16b) means the one on the line 4.)
- p. 84, line 9: (8.15) and (8.16)  $\mapsto$  (8.16) and (8.16b)
- p. 85, line 11: (8.10)  $\mapsto$  (8.9)
- p. 97, lines 6 $\uparrow$ , 3 $\uparrow$ :  $n \mapsto N$

p. 98, line 4:  $\mu_3 \mapsto \mu_4$

p. 98, line 8:  $\mu_4 \mapsto \mu_5$

p. 98, line 12:  $\mu_5 \mapsto \mu_6$

p. 103, line 3 and p. 104, line 10:  $q^{h-j} \mapsto q^{h+j}$

p. 103, Exercises 133 and 134: I would like to know the solution to Exercise 133 that you are expecting. When I arrived at Exercise 133, I thought that the solution most natural for readers would be to mimic the proof of the formula  $\pi_2$ , namely, to use the recursion (10.4) (and the result on  $\pi_2$  just obtained). However it seems to be the solution to Exercise 134. So I concluded that the expected solution to Exercise 133 was a different one. It is possible to get a combinatorial proof of the formula for  $\pi_3$  given in Exercise 133 avoiding the use of the recursion (10.4), for example by considering the meanings of each term on the right hand side of the formula. If it is what you are expecting, I believe that some hint should be given, otherwise readers will proceed the same way as I went on.

p. 104, line 3 $\uparrow$ :  $q^{h+1} \mapsto q^{h+j}$ , and  $-\begin{bmatrix} r+h \\ r-1 \end{bmatrix} \mapsto -q \begin{bmatrix} r+h \\ r-1 \end{bmatrix}$

p. 105, line 3:  $q^{-h-j} \mapsto q^{-2j}$

p. 113, line 3: “nonreduced height” of a staircase was not defined in Chapter 3.

p. 124, line 8: the 2000 Putnum Examination  $\mapsto$  the 1999 Putnum Examination

p. 127, line 10:  $1 + a_1 + a_2 + \dots \mapsto 1 + a_0 + a_1 + \dots$ , and  $\prod_{n=1}^N \mapsto \prod_{n=0}^N$

p. 127, line 7 $\uparrow$ :  $m \geq n \mapsto m \geq N$

p. 128, line 10:  $(1 + a_1)(1 + a_2) \mapsto (1 + a_0)(1 + a_1)$

p. 128, line 11:  $(1 + |a_1|)(1 + |a_2|) \mapsto (1 + |a_0|)(1 + |a_1|)$

p. 129, Andrews (1971c): 76  $\mapsto$  78

- p. 130, Atkin and Swinnerton-Dyer: (1953)  $\mapsto$  (1954)
- p. 131, Subbarao: It would be better to exchange the numbering (1971a) and (1971b), since (1971b) appeared in an earlier volume.
- p. 133, Exercise 18: row (resp. column)  $\mapsto$  column (resp. row)
- p. 135, Exercise 116: Exercise 2 of Chapter 4  $\mapsto$  Exercise 46
- p. 136–138: The numbers 147–166 should be 149–168. (Add 2 to each number!).
- p. 140, line 1 $\uparrow$ : Jockush  $\mapsto$  Jockusch

Suggested by Shishuo Fu and Zichen Yang (October 2, 2016)

The following are two further items we would like to bring to the original authors' attention, after viewing the list of typos suggested by the Japanese translator.

- p.123, line 1: Chapter 6  $\rightarrow$  Chapter 7.
- Concerning the suggested typos on p.59 and p.60, in deriving the formula for  $p(n, 4)$ , we have a different opinion. We suggest only to correct the following two places:
  - i p.59 line 1 $\uparrow$ :  $1/16 \rightarrow 1/8$ ;
  - ii p.60 line 2:  $1/16 \rightarrow 1/8$ .

This will fix the formula, and in our opinion is more likely what was meant by the original authors.