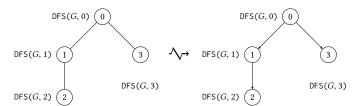
Real World Algorithms: A Beginners Guide Errata to the Second Printing

Last updated 23 May 2018

This document lists the changes that should be made to *Real World Algorithms* to correct mistakes that made their way to printing, to improve infelicities that the author spotted too late, or update the material with something that the author did not know at the time of writing the book.

There are three different kinds of changes noted here. In all of them the date that they became known to the author is given at the first line of each item. The name of the person who suggested the change is also given at the end of each change.

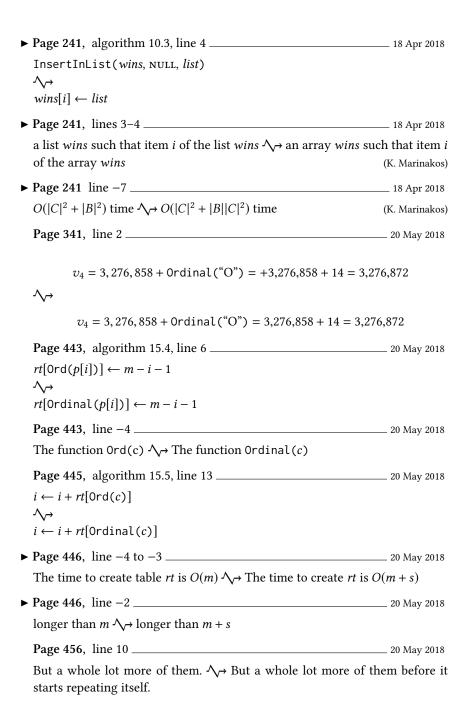
>	• Page 1, line 1	1 Jan 1
	These are technical or typographical errors.	
	Page 1, line 1	1 Jan 1
	These as changes that improve the book, even if they do not correct and They include small rewordings, or material that became known to the after the book was published.	
	Page 1, line 1 These are minor fixes that although they do not make a big difference they do hurt the some of them might strain the reader's eye to see where the improvement is exactly	



(K. Marinakos)

▶ Page 49, line 4	17 Feb 2018
the same as algorithm 2.4 \rightsquigarrow the same as algorithm 2.3	(K. Marinakos
▶ Page 55, figure 2.28a	17 Feb 2018
rename nodes 7 and 8 to 6 and 7 respectively	(K. Marinakos
▶ Page 61, line 7	26 Feb 2018
with number in different number systems $ \searrow $ with numbers in ber systems	n different num (K. Marinakos
▶ Page 61, lines 17–18	26 Feb 2018
The binary number 1010 has value 14 $\begin{subarray}{c} \begin{subarray}{c} s$	mber 1110 has (K. Marinakos
▶ Page 69, line −13	26 Feb 2018
Each element of the priority tree $\begin{subarray}{l} \bigwedge \to Each element of the (K. Marinakos) \end{subarray}$	priority queue
▶ Page 72, line −2	26 Feb 2018
larger than its parent $\ \ \ \ \ \ \ \ \ \ \ \ \ $	(K. Marinakos
▶ Page 73, line −1	26 Feb 2018
larger than its children $ \searrow $ smaller than its children	(K. Marinakos
▶ Page 161, line 14	26 Mar 2018
Beceause	(K. Marinakos
▶ Page 173, figure 7.4	19 Mar 2018
was astonished whenever it shone in her face. was astonished whenever it shone in her face. Close by the	Close by
was astonished whenever it shone in her face. was astonished whenever it shone in her face. Clo	•
▶ Page 180, line −17 to −16	19 Mar 2018
then the number of nodes cannot be more than the number of the number of nodes minus the source cannot be more than edges	
► Page 192, figure 8.3 (h)	21 Mar 2018
$5/R_2 \rightsquigarrow 5/R_3$	M. E. Kostopoulou

▶ Page 194 line −4	26 Mar 2018		
exactly one ∕√→ exactly once	(K. Marinakos)		
► Page 196 line -7	26 Mar 2018		
$(2,1) \rightsquigarrow (2,2)$	(K. Marinakos)		
▶ Page 196 line −1	26 Mar 2018		
eighth ∕√→ seventh	(K. Marinakos)		
► Page 198 line 12	26 Mar 2018		
they story short	(K. Marinakos)		
► Page 231 lines 8-9	18 Apr 2018		
<i>A</i> beats <i>B</i> by 60 to 40, <i>B</i> beats <i>C</i> by 60 to 40, and <i>C</i> beats <i>A</i> by 60 to 40 \rightsquigarrow <i>A</i> beats <i>B</i> by 60 to 30, <i>B</i> beats <i>C</i> by 60 to 30, and <i>C</i> beats <i>A</i> by 60 to 30 (K. Marinakos)			
_	18 Apr 2018		
$i = 1, 2, \dots, n \ \ \ \ \ \ \ \ \ \ \ \ \$			
▶ Page 232 line −11	18 Apr 2018		
This requires $\Theta(B ^2)$ time. $\bigwedge \rightarrow$ This requires $\Theta(C ^2)$ time.	(K. Marinakos)		
► Page 233 line 2			
runs in $O(C ^2 + B ^2)$ time. $\Lambda \rightarrow$ runs in $O(C ^2 + B C ^2)$ time	(K. Marinakos)		
► Page 241, algorithm 10.3, Input	18 Apr 2018		
<i>S</i> , an array of size $n \times n$ with the strongest paths between node strongest path between nodes i and j $\uparrow \rightarrow$			
S , an array of size $n \times n$ with the strengths of the strongest p nodes; $s[i,j]$ is the strength of the strongest path between node			
► Page 241, algorithm 10.3, Output	18 Apr 2018		
wins, a list of size n ; item i of wins is a list containing m integer items j_1, j_2, \ldots, j_m for which $S[i, j_k] > S[j_k, i]$			
wins, an array of size n ; item i of wins is a list containing m j_1, j_2, \ldots, j_m for which $S[i, j_k] > S[j_k, i]$	integer items		
<pre>▶ Page 241, algorithm 10.3, line 1 wins ← CreateList() wins ← CreateArray(n)</pre>	18 Apr 2018		



► Page 463, line -4,	_ 20 May 2018
from a $scr \longrightarrow from a source src$	
▶ Page 463, lines -3, -1	_ 20 May 2018
$scr \longrightarrow src$	
▶ Page 464, algorithm 16.5 signature, input, output, lines 1, 3, 5	_ 20 May 2018
$scr \longrightarrow src$	
▶ Page 464, line 1	_ 20 May 2018
creating $s \longrightarrow creating S$	
► Page 464, lines 2, 4, -6	_ 20 May 2018
$scr \longrightarrow src$	
▶ Page 464, line -6	_ 20 May 2018
we return $s \rightsquigarrow$ we return S	
▶ Page 478, figure 16.7, line 2	_ 23 May 2018
F	ттттт
√→	
	1 1 1 1 1
▶ Page 484, algorithm 16.10, output	_ 23 May 2018
with probability $(1/4)^t \rightsquigarrow$ with error probability $(1/4)^t$	