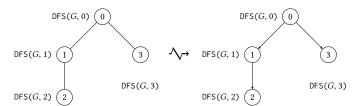
## Real World Algorithms: A Beginners Guide Errata to the Second Printing

Last updated 18 April 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 11	Jan 1
These are technical or typographical errors.	
Page 1, line 11	Jan 1
These as changes that improve the book, even if they do not correct an e They include small rewordings, or material that became known to the au after the book was published.	
Page 1, line 1 1 These are minor fixes that although they do not make a big difference they do hurt the a	Jan 1 uthoi
Some of them might strain the reader's eye to see where the improvement is eyectly	



(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	(K. Marinakos)
▶ Page 196 line –7	26 Mar 2018
$(2,1) \stackrel{\wedge}{\searrow} (2,2)$	(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 line 7-8	18 Apr 2018
60 to 40 <b>\</b> → 60 to 30	(K. Marinakos)
▶ Page 232 line 1	18 Apr 2018
$i=1,2,\ldots n \rightsquigarrow i=1,2,\ldots,n$	
▶ Page 232 line −11	18 Apr 2018
This requires $\Theta( B ^2)$ time. $\bigwedge$ This requires $\Theta( C ^2)$ time.	(K. Marinakos)
▶ Page 233 line 2	18 Apr 2018
runs in $O( C ^2 +  B ^2)$ time. $\uparrow \rightarrow$ runs in $O( C ^2 +  B  C ^2)$ time	(K. Marinakos)
▶ Page 241 line −7	18 Apr 2018
$O( C ^2 +  B ^2)$ time $\longrightarrow O( C ^2 +  B  C ^2)$ time	(K. Marinakos)
▶ Page 241, algorithm 10.3, line 9	18 Apr 2018
return wins √→ return ReverseList(wins)	(K. Marinakos)
▶ Page 241, algorithm 10.3, Input	18 Apr 2018
$S$ , an array of size $n \times n$ with the strongest paths between node strongest path between nodes $i$ and $j \land \searrow S$ , an array of size $i$ strengths of the strongest paths between nodes; $s[i,j]$ is the strongest path between nodes $i$ and $j$	$n \times n$ with the
▶ Page 241, line 5	18 Apr 2018
Add: We assume we have a function ReverseList( $L$ ) that reverses the to it.	ne list $L$ passed
Page 507, second column	18 Apr 2018