

# FOUNDATIONS OF COMPUTER SCIENCE

## Errata

### Chapter 3

Page	Location	Correction
49	Two's Complement Representation, line 6	Change <b>0110</b> to <b>0111</b> & change <b>0111</b> to <b>1000</b>
54	Storing reals, line 2	Change <b>27</b> to <b>23</b>
55	Example 3.18	Change <b>7,452</b> to <b>7,425</b>
60	Example 3.23 solution	In line c, change <b>(1.1011)<sub>2</sub></b> to <b>(1.0111)<sub>2</sub></b> In line d, change <b>M=1011</b> to <b>M= 0111</b> In line e, M = <b>0111</b> 00000000000000000000 The number is stored in the computer as 01000000 <b>1011</b> 00000000000000000000
62	Truncation errors, line 7	Change <b>27</b> to <b>26</b>
63	Line 1	Change <b>nine</b> to <b>ten</b>
67	True-Color, line 4	Change <b>256</b> to <b>255</b>

### Chapter 4

Page	Location	Correction
92	Example 4.23, solution	Change <b>S<sub>B</sub> = <math>\bar{S}_B</math></b> to <b>B<sub>S</sub> = <math>\bar{B}_S</math></b>
93	Figure 4.8, line 6	Change <b>1.00010</b> to <b>1.000111</b>

### Chapter 5

Page	Location	Correction
102	Line 4	Change <b>Figure 5.2</b> to <b>Figure 5.1</b>
111	Format, line c	Change <b>96</b> to <b>98</b>
133	Cycle 1, line 3	Change <b>(1040)</b> to <b>(40)<sub>16</sub></b>
137	Read Operation	Change <b>M<sub>EF</sub></b> to <b>M<sub>FE</sub></b> Change <b>EF<sub>16</sub></b> to <b>FE<sub>16</sub></b>

### Chapter 8

Page	Location	Correction
220	Example 8.2, solution, line 4	Change <b>Algorithm 8.3</b> to <b>Algorithm 8.2</b>

### Chapter 10

Page	Location	Correction
272	Figure 10.1	Change <b>absolote</b> to <b>obsolete</b>

## Chapter 11

Page	Location	Correction
294	Solution, line 7	Change <b>i is 3 and j is 5</b> to <b>i is 5 and j is 3</b>
308	Figure 11.19 (should read)	<p>The diagram illustrates a linked list deletion operation. It is divided into three parts:</p> <ul style="list-style-type: none"> <li><b>After the search:</b> A linked list with nodes 132 and 178. A pointer 'pre' points to node 132, and a pointer 'cur' points to node 178. Ellipses indicate the list continues.</li> <li><b>Update:</b> The pointer '(*pre).link' is updated to point to '(*cur).link', effectively bypassing node 178.</li> <li><b>Result:</b> The final linked list is 'list -&gt; 102 -&gt; 132 -&gt; Deleted (178) -&gt; Successor (201)'. Node 178 is shown in a dashed box with a red 'X' over it, indicating it has been removed from the list.</li> </ul>

## Chapter 12

Page	Location	Correction
325	Line 2	Change <b>figure 12.3</b> to <b>figure 12.9</b>

## Chapter 14

Page	Location	Correction																		
379	Union, line 7	Change <b>on the lower left</b> to <b>on the upper right</b>																		
381	Figure 14.15	<p>Change result of operation from</p> <table border="1"> <thead> <tr> <th>Student-ID</th> <th>F-Name</th> <th>L-Name</th> </tr> </thead> <tbody> <tr> <td>145-67-6754</td> <td>John</td> <td>Brown</td> </tr> <tr> <td>232-56-5690</td> <td>George</td> <td>Yellow</td> </tr> </tbody> </table> <p>to</p> <table border="1"> <thead> <tr> <th>Student-ID</th> <th>F-Name</th> <th>L-Name</th> </tr> </thead> <tbody> <tr> <td>345-89-6580</td> <td>Anne</td> <td>Green</td> </tr> <tr> <td>459-98-6989</td> <td>Ted</td> <td>Purple</td> </tr> </tbody> </table>	Student-ID	F-Name	L-Name	145-67-6754	John	Brown	232-56-5690	George	Yellow	Student-ID	F-Name	L-Name	345-89-6580	Anne	Green	459-98-6989	Ted	Purple
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382	Figure 14.16	<p>Change STUDENT <b>P-ID</b> to <b>S-ID</b></p> <p>Change PROFESSOR <b>S-ID</b> to <b>P-ID</b></p>																		

## Chapter 16

Page	Location	Correction
418	Paragraph 5, line 3	Change <b>m</b> to <b>n</b>

## Chapter A Unicode

Page	Location	Correction
500	A.1 Planes, line 4	Change <b>65,536</b> to <b>65,535</b>
501	Table A.1	Change All instances of <b>(##)16</b> to <b>(##)<sub>16</sub></b>