

Learn to Code by Solving Problems

A Python Programming Primer

by Daniel Zingaro

Errata updated to print 4

Page	Error	Correction	Print corrected
xxiii	The latest version of Python is Python 3.9.	The latest version of Python is Python 3.11.	Print 3
xxiii	... click either Add Python 3.9 to PATH or Add Python to environment variables click either Add Python 3.11 to PATH or Add Python to environment variables ...	Print 3
3	<pre>Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:30:23) [MSC v.1928 32 bit (Intel)] on win32</pre>	<pre>Python 3.11.2 (tags/v3.11.2:878ead1, Feb 7 2023, 16:38:35) [MSC v.1934 64 bit (AMD64)] on win32</pre>	Print 3
4	<pre>Python 3.9.2 (default, Mar 15 2021, 17:23:44) [Clang 11.0.0 (clang-1100.0.33.17)] on darwin</pre>	<pre>Python 3.11.2 (v3.11.2:878ead1ac1, Feb 7 2023, 10:02:41) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin</pre>	Print 3
5	<pre>Python 3.9.2 (default, Feb 20 2021, 20:57:50) [GCC 7.5.0] on linux</pre>	<pre>Python 3.11.2 (main, Feb 8 2023, 14:49:29) [GCC 7.5.0] on linux</pre>	Print 3
32	<pre>❶ >>> if apple_total > banana_total: ... print('A') ❷ ... elif banana_total > apple_total: ... print('B') ... elif apple_total == banana_total: ... print('T')</pre>	<pre>❶ >>> if apple_total > banana_total: ... print('A') ❷ ... elif banana_total > apple_total: ... print('B') ❸ ... elif apple_total == banana_total: ... print('T')</pre>	Print 3
39	The only way to get True out of the And operator is if both of its operands are True.	The only way to get True out of the and operator is if both of its operands are True.	Print 4
41	Our solution is in Listing 2.2.	Create a text file called <i>telemarketers.py</i> and type the code in Listing 2-2.	Print 3

Page	Error	Correction	Print corrected
50–51	<pre>>>> for char in secret_word: ... print('Letter: ' + char) ... 5 iterations, coming right up!</pre>	<pre>5 iterations, coming right up! >>> for char in secret_word: ... print('Letter: ' + char) ...</pre>	Print 3
110	Python therefore adds two spaces at the beginning and two spaces at the end to center the string.	Python therefore adds two 'x's at the beginning and two 'x's at the end to center the string.	Print 4
132	Our code to solve this problem is in Listing 5-6.	Our code to solve Baker Bonus is in Listing 5-6.	Print 3
148	Is the following version of <code>no_high</code> correct? That is, does it return <code>True</code> if there is at least one high card in the list, and <code>False</code> otherwise?	Is the following version of <code>no_high</code> correct? That is, does it return <code>True</code> if there are no high cards in the list, and <code>False</code> otherwise?	Print 3
158, 165	<pre>for i in range(len(box)): box[i] = int(box[i])</pre>	<pre>for j in range(len(box)): box[j] = int(box[j])</pre>	Print 3
178	To write a number to a file, convert it to a string first: <pre>>>> num = 7788 >>> output_file = open('blah.out', 'w') >>> output_file.write(str(num) + '\n') 5</pre>	To write a number to a file, convert it to a string first. You can do that using an f-string: <pre>>>> num = 7788 >>> output_file = open('blah.out', 'w') >>> output_file.write(f'{num}\n') 5</pre>	Print 3
180	<pre>for word in words: ❶ if chars_on_line + len(word) <= k: line = line + word + ' ' chars_on_line = chars_on_line + len(word) else: ❷ output_file.write(line[:-1] + '\n') line = word + ' ' chars_on_line = len(word) ❸ output_file.write(line[:-1] + '\n')</pre>	<pre>for word in words: ❶ if chars_on_line + len(word) <= k: line = line + word + ' ' chars_on_line = chars_on_line + len(word) else: ❷ output_file.write(f'{line[:-1]}\n') line = word + ' ' chars_on_line = len(word) ❸ output_file.write(f'{line[:-1]}\n')</pre>	Print 3
181	Second, you may have expected me to use an f-string here , like this: <pre>output_file.write(f'{line[:-1]}\n')</pre> <p>However, at the time of writing, the USACO judge is running an older version of Python that doesn't support f-strings.</p>	Second, I used an f-string to simplify adding the newline character at the end of the line; equivalent code that doesn't use an f-string looks like this: <pre>output_file.write(line[:-1] + '\n')</pre>	Print 3

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196, 198	<code>output_file.write(output + '\n')</code>	<code>output_file.write(f'{output}\n')</code>	Print 3
234	<code>output_file.write(str(total // 2) + '\n')</code>	<code>output_file.write(f'{total // 2}\n')</code>	Print 3
241	<code>output_file.write(str(max_covered) + '\n')</code>	<code>output_file.write(f'{max_covered}\n')</code>	Print 3
248	<code>output_file.write(str(min_cost) + '\n')</code>	<code>output_file.write(f'{min_cost}\n')</code>	Print 3
251	<code>output_file.write(str(total) + '\n')</code>	<code>output_file.write(f'{total}\n')</code>	Print 3
254	<code>output_file.write(str(total) + '\n')</code>	<code>output_file.write(f'{total}\n')</code>	Print 3
256	Python has a binary search function that will put the finishing touches on Cow Baseball. That function, though, is inside of something called a <i>module</i> ; we'll need to discuss them first.	Python has binary search functions that will put the finishing touches on Cow Baseball. Those functions, though, are inside of something called a <i>module</i> ; we'll need to discuss them first.	Print 3
261	<code>output_file.write(str(total) + '\n')</code>	<code>output_file.write(f'{total}\n')</code>	Print 3
271	then 8n is 40,000. The number 8 is so small compared to 40,000	then 2n is 10,000. The number 8 is so small compared to 10,000	Print 3
277	<code>output_file.write(str(total) + '\n')</code>	<code>output_file.write(f'{total}\n')</code>	Print 3
294	Longest Scarf is originally from the DMOPC '14 March Contest. Ribbon Painting is originally from the DMOPC '20 November Contest.	Longest Scarf is originally from the DMOPC '20 November Contest. Ribbon Painting is originally from the DMOPC '17 February Contest.	Print 4