

Learn to Code by Solving Problems

A Python Programming Primer

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errata updated to print 3

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
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

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50–51	<pre data-bbox="176 185 1014 326">>>> for char in secret_word: ... print('Letter: ' + char) ... 5 iterations, coming right up!</pre>	<pre data-bbox="1050 185 1887 326">5 iterations, coming right up! >>> for char in secret_word: ... print('Letter: ' + char) ... </pre>	Print 3
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 data-bbox="176 522 1014 599">for i in range(len(box)): box[i] = int(box[i])</pre>	<pre data-bbox="1050 522 1887 599">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 data-bbox="176 683 1014 829">>>> 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 data-bbox="1050 683 1887 829">>>> num = 7788 >>> output_file = open('blah.out', 'w') >>> output_file.write(f'{num}\n') 5</pre>	Print 3
180	<pre data-bbox="176 927 1014 1203">for word in words: ⑤ if chars_on_line + len(word) <= k: line = line + word + ' ' chars_on_line = chars_on_line + len(word) else: ⑥ output_file.write(line[:-1] + '\n') line = word + ' ' chars_on_line = len(word) ⑦ output_file.write(line[:-1] + '\n')</pre>	<pre data-bbox="1050 927 1887 1203">for word in words: ⑤ if chars_on_line + len(word) <= k: line = line + word + ' ' chars_on_line = chars_on_line + len(word) else: ⑥ output_file.write(f'{line[:-1]}\n') line = word + ' ' chars_on_line = len(word) ⑦ 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 data-bbox="176 1292 1014 1341">output_file.write(f'{line[:-1]}\n')</pre> <p data-bbox="176 1373 1014 1422">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 data-bbox="1050 1292 1887 1341">output_file.write(line[:-1] + '\n')</pre>	Print 3

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196, 198	<pre>output_file.write(output + '\n')</pre>	<pre>output_file.write(f'{output}\n')</pre>	Print 3
234	<pre>output_file.write(str(total // 2) + '\n')</pre>	<pre>output_file.write(f'{total // 2}\n')</pre>	Print 3
241	<pre>output_file.write(str(max_covered) + '\n')</pre>	<pre>output_file.write(f'{max_covered}\n')</pre>	Print 3
248	<pre>output_file.write(str(min_cost) + '\n')</pre>	<pre>output_file.write(f'{min_cost}\n')</pre>	Print 3
251	<pre>output_file.write(str(total) + '\n')</pre>	<pre>output_file.write(f'{total}\n')</pre>	Print 3
254	<pre>output_file.write(str(total) + '\n')</pre>	<pre>output_file.write(f'{total}\n')</pre>	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	<pre>output_file.write(str(total) + '\n')</pre>	<pre>output_file.write(f'{total}\n')</pre>	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	<pre>output_file.write(str(total) + '\n')</pre>	<pre>output_file.write(f'{total}\n')</pre>	Print 3