

[< Shaq](#)[Main Page](#) → [Problems](#) → **Solve a Problem**[DoubleSlash >](#)

○ BJP4 Self-Check 1.11: downwardSpiral ☆ Favorite

Language/Type: Java [basics](#) [escape sequences](#) [mystery](#) [println](#)

Author: Marty Stepp (on 2016/09/08)

What is the output produced from the following statements? (Treat tabs as aligning to every multiple of eight spaces.)

```
System.out.println("\ta\tb\tc");
System.out.println("\\\\");
System.out.println("");
System.out.println("\\""\\"");
System.out.println("C:\nin\tthe downward spiral");
```

(NOTE ABOUT SPACING: Many students fail this problem by not understanding how the `\t` character works, causing them to have the wrong number of spaces. A tab inserts multiple spaces until the total number of characters on the current line so far is a multiple of 8. So for example, in the string `"hi\tthehello\tgoodbye\tbeautiful\tthe"`, the first `\t` becomes 6 spaces (because `"hi"` is 2 characters, so it takes 6 more to get to 8), the second `\t` is 3 spaces (because `"hello"` is 5 characters wide, so it takes 3 more characters to get to 8), the third is 1 (because `"goodbye"` is 7 characters), and the fourth `\t` is 7 spaces (because `"beautiful"` is 9 characters, so it takes 7 more to get to 16, which is the next multiple of 8).

output

```
      a      b      c
\\
,
....
C:
in      he downward spiral
```

☒ Sound F/X**Submit**

✔ You passed 1 of 1 tests.

[Go to the next problem: DoubleSlash](#)

#	question	your answer			result
1	output	a	b	c	✔ pass
	<pre> \\ ' "" C: in he downward spiral </pre>				

If you do not understand how to solve a problem or why your solution doesn't work, please contact your TA or instructor.

If something seems wrong with the site (errors, slow performance, incorrect problems/tests, etc.), please [contact us](#).

Is there a problem? [Contact a site administrator](#).

Site name, logo, iconography, site design, web application and problems are original work and copyright © Marty Stepp unless otherwise specified. This site is the independent creation and intellectual property of the author and has no direct affiliation or association with any particular company, university, course, textbook, or any other material or online resource. Any non-educational usage of the content on this site is expressly forbidden without written permission. All rights reserved.