

Spring 2015

Program 4: List of Deductions

Deduction number	Description	Points deducted
<b>1</b>	<b>Late penalty</b>	<b>Variable</b>
<b>2</b>	<b>Comments</b> (If program contains no comments, -10)	<b>-10</b>
2a	No header comment	-3
2b	Header comment is present, but name is missing	-1
2c	Each variable declaration should be accompanied by a comment describing its purpose	-3
2d	Body of program contains no comments	-4
2e	Body of program contains some comments, but not enough	-3
<b>3</b>	<b>Indentation</b> (If code is not indented at all, -9)	<b>-9</b>
3a	All code inside main() should be indented at least one tab level	-3
3b	Code inside block (if statement, each case of a switch statement) should be indented one tab more than start of block	-3
3c	Code is not indented consistently	-3
<b>4</b>	<b>Variables</b>	
4a	Variable names are not descriptive enough	-3
4b	All variables should be declared at start of main()	-3
<b>5</b>	<b>File name is incorrect</b>	<b>-10</b>
<b>6</b>	<b>Program does not compile</b>	<b>-60</b>
<b>7</b>	<b>Input</b> (if program does not follow input spec, -10)	<b>-10</b>
<b>8</b>	<b>Error checking</b> (if program does little or no error checking, -15)	<b>-15</b>
8a	Program does not correctly handle errors due to improperly formatted input (or does not test for such errors)	-5
8b	Program does not properly handle error when A is not positive	-5
8c	Program does not properly handle error when n is less than 2	-5
<b>9</b>	<b>Output</b> (if program produces little or no correct output, -30)	<b>-35</b>
9a	Root is incorrect if $A < 1$	-5
9b	Program does not calculate correct root	-15
9c	Program only calculates a single root and does not ask user about calculating multiple roots	-20
9d	Program gets stuck at prompt asking about another root	-10
9e	Program should not print result if error occurs	-3
9f	Output should contain original values of A and n, not just result	-3
9g	Program should only calculate another root if 'Y' or 'y' is entered when user is asked	-3
9h	Program should only exit if user enters 'N' or 'n' when asked	-5
9i	Program does not produce proper output after error occurs	-5
<b>10</b>	<b>Miscellaneous</b>	
10a	Failure to comment out extra code intended to pause program at end (e.g., system("PAUSE"), infinite loop, etc.)	-5
10b	Program does not contain code to calculate root	-50