

Spring 2017

Program 3: List of Deductions

| Deduction number | Description   | Points deducted |
|------------------|---|-----------------|
| <b>1</b>         | <b>Late penalty (doubles each day: -1 for 1 late day, -2 for 2, -4 for 3, etc.)</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, -20)  | <b>-20</b>      |
| 8a               | Program does not handle improperly formatted input  | -5              |
| 8b               | Program does not handle invalid operator error  | -5              |
| 8c               | Program does not handle negative precision error  | -5              |
| 8d               | Program does not handle divide by 0 error   | -5              |
| <b>9</b>         | <b>Output</b> (if program produces little or no correct output, -30)  | <b>-30</b>      |
| 9a               | Program should print entire expression using specified precision, not just result                                     | -5              |
| 9b               | Program should allow spaces between numbers and operator  | -3              |
| 9c               | Improper handling of variable precision   | -3              |
| 9d               | Program does not allow precision of 0   | -2              |
| 9e               | Program should not output expression and result if 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              |