Quadratic Solver

1/21/2017

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The Quadratic solver is a command line application for linux that will calculate the real roots of a quadratic exquation.

The user will input the constants. The application will then find the roots using the quadratic formula. If the roots are real numbers, the application will output the roots.

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| --- | --- | --- | --- | --- |
| Story | Risk | Est. Time | Actual Time | % Complete |
| For the equation ax2+bx+c, the application shall accept the constants a, b, and c as input from the user | low | 1 hr |  | 0 |
| The users input shall be validated, the user shall be informed if the input is valid, and given a chance to reenter correct input. The input should be floats >=0. The constant a must be >0. | low | 2 hr |  | 0 |
| The application shall output the roots, if they are real. If the roots are not real, it shall inform the user of that. | low | 1 hr |  | 0 |
| The roots shall be calculated to the greatest precision possible with the computer used. | moderate | 3hr |  | 0 |
| The application shall inform the user of the degree of error in the calculation. | moderate | 1hr |  | 0 |
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