**Title:** Tasks for Quadratic Solver

**Date:** February 4, 2018

**Group names:** Ryan Hamilton, Michael Riess, Adam Kessler

**Intro:** As a team we are working with the engineers to build a Quadratic Equation solver tool to solve equations of the form aX^2+bx+c. The tool will be used to replace the current tool in which they use that is allowing the blades on the wind turbine to eject themselves. To accomplish this we must handle and validate the input and output it to make sure there are no crashes or incorrect output. Another important item to handle is the occurrence of Infinite and Not a real number values. These can crash the tool or even worse return invalid output that could potentially put cows lives at risk in the fields where the turbines are present.

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| --- | --- | --- | --- | --- | --- | --- |
| Task | Time Estimated | Risk (1-5) | Who | Time Spent | % Complete | Code Review |
| Research Normalized, Denormalized, Nan and Inf | 1 hour | 1 | Ryan | 1 hour | 100% | N/A |
| Testing float values for Normalized, Denormalized, Nan, Inf | 1 hour | 1 | Ryan | 20minutes | 20% |  |
| Input Validation | 1 hour | 1 | Ryan | 60minutes | 100% |  |
| Format Output | 30minutes | 1 | Ryan | 0minutes | 0% |  |
| Handle Nan and Inf Input and Output | 2 hours | 3 | Ryan | 0minutes | 0% |  |
| IEEE References | 30minutes | 1 | Michael | 2 hours | 100% |  |
| IEEE Ranged Precision | 30minutes | 1 | Michael | 20 minutes | 100% |  |
| GCC Flags to use | 30minutes | 1 | Michael | 20 minutes | 100% |  |
| C Programming Standard | 20minutes | 1 | Adam | 0 | 0% |  |
| Relative Error | 25minutes | 1 | Ryan | 0 | 0% |  |
| Absolute Error | 25minutes | 1 | Ryan | 0 | 0% |  |
| Quad Solver References | 25minutes | 1 | Michael | 1 hour | 100% |  |