Quad-Solver Program

Alex Markules, Grant Farnsworth, Jake Kampf

TPS Report, Week 2

10/14/18

Tasks:

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| --- | --- | --- | --- | --- | --- |
| Name | Description | Time | Risk | Assignee | To be completed |
| Research C Unit Testing | Read up on C Unit Testing | 1+ hours | 1 | All | 10/21/18 |
| Improve error handling for modules | Make buffer overflow errors handled, NAN and inf errors handled | 2 hours | 2 | Jake Kampf  Grant Farnsworth | 10/21/18 |
| Write Robust tests for current project | Write tests in CUnit for full test coverage of all methods | 1.5 hours | 3 | All | 10/21/18 |
| Write imaginary number check for quad solver | Check if a determinant is negative before taking the square root | 30 min | 1 | Alex Markules | 10/21/18 |
| Write zero determinant check for quad solver | Check if the determinant is 0, and indicate that only one solution exists in the return value | 30 min | 1 | Alex Markules | 10/21/18 |
| Create float parser for struct | Convert char\* in struct to floats | 30 min | 1 | Jake Kampf | 10/21/18 |

Stories:

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| --- | --- | --- | --- | --- |
| Name | Description | Time | Risk | To be completed |
| Number of Solutions calculator | Write a method for checking for 0 or negative determinant and printing relevant warnings | 1-2 hours | 2 | 10/21/18 |
| Report Issues with precision | If the answer may be wrong or imprecise, give a warning. | 1-2 hours | 2 | 10/21/18 |
| Decide on a license agreement | Compare license agreements and include the best choice in our project | 30 min | 1 | 10/21/18 |