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Fall 2021

CMSC204

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***Project 2***

This was a very exciting project for me. While working on it, I learned how to efficiently operate both a stack and a queue, all while getting a better grasp on how to write efficient algorithms UwU. Working on this project raised several problems smh. A major roadblock I encountered was figuring out the right place to throw exceptions in Notation.java. I realized if I threw the exception too early, the code never worked; throw them too late, and the code throws a different exception instead. Hand tracing my code to pinpoint the exact moments at which I knew that an exception should be thrown was the one thing that took most of my time. I’m proud of the notation.java class because the code is readable, nice, concise, and efficient.

***Tests***

|  |  |  |  |
| --- | --- | --- | --- |
| Tests | Expected | Actual | Pass? |
| a+b\*c/(e-f) | abc\*ef-/+ | abc\*ef-/+ | y |
| (a+((b\*c)/(e-f))) | abc\*ef-/+ | abc\*ef-/+ | y |
| 23-4+567\*+\* | 141.0 | 141.0 | y |

***Screenshots***

