

### Problems encountered during implementation:

I ran into plenty of problems during the process of working on this project. One of these was dealing with the 'M' or 'K' after the amount in the "damage\_property" or "damage\_crops" field. I solved this by creating a substring and then multiplying the number by a set value. 1,000,000 for the millions and 1,000 for the thousands.

Another issue I ran into was converting the tokens created by the string tokenizer to the correct data types for the 'event' class. What I ended up using was the atoi function to allow me to convert them.

One of the first issues I ran into when working on this project, however was not being able to figure out how to properly read the .csv file in and how to split it up by line. I learned about the string tokenizer function from my dad and it helped me immensely.

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### Known bugs:

Trying to call extractDMG seems to end with an error. Wasn't able to figure it out in time.

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### Incomplete implementation:

Due to many factors such as work, other classes, and getting stuck on certain parts of this project, I was not able to implement every single bit of functionality required. I was unable to make the program accept queries from the command line, I was never taught how to and did not have time to learn how.

I was also unable to implement both the 'range' functionality and the 'find max fatality' function at all. I just didn't have enough time.

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### Significant interactions:

I got a few pointers from my dad. He taught me about the string tokenizer, atoi function and gave me a few pointers on using vectors in my project.

The only other 'significant interaction' I had was with another student at the recitation a week or so ago. I don't know what his name was but he taught me how to write a makefile properly.

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### References used:

<https://www.cplusplus.com/reference/> (multiple pages here were used to find certain functions and such)

<https://www.geeksforgeeks.org/binary-search-tree-set-1-search-and-insertion/>

<https://www.geeksforgeeks.org/building-heap-from-array/>

and my notes.

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