



# OBJECTIVES &

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- Implementing Bubble Sort in x86\_64 Assembly
- Implementing Insertion Sort
- Scripting GDB Commands
- Reading and Outputting a File
- Creation of a Doubly Linked List



# ACCOMPLISHED

- Scripting GDB commands
- Outputting to the Terminal
- Implementing Insertion Sort
- Function Compartmentalization



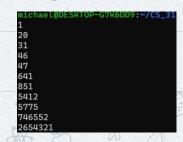
### INPUTS AND OUTPUTS

#### **INPUT**

We were unable to read inputs from a file so the numbers are embedded into the program itself. Data\_items is stored at the beginning of the program and the numbers are followed by a -1 at the end of the program to signify the end of the list.

#### **OUTPUT**

The output prints out sorted into the command line whenever calling bubble\_sort.x. We did have a problem where it would only print out single digits, however it was eventually fixed.





### THINGS WE COULDN'T FIGURE OUT (S)

#### Reading and Outputting a File

We spent hours ripping out our hair looking at Ch.5-Ch.6 in
Programming from the Ground up but with nothing to show for it.
Michael eventually got it to create a file but could not write to it so we scrapped the idea.

#### **Doubly-Linked Lists**

Due to the nature of our code, sorting in a backwards manner completely destroyed our methods. The -1 flag we previously used as our finish line now had to be reverted and even our head was overwritten.



## TEAM PRESENTATION



Michael Bartlett
CODING GOD

Coded like 99% of the entire thing



Tina Nguyen
EMOTIONAL SUPPORT
Watched Michael code



Averi Bates
REPORT MASTER

The other 1% of coding and kept us on track

