Assignment 3
Reflection
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The bot I have built relies on an LLM to calculate its answers. LLM scrapes information from the internet in order to train itself. It is not necessarily coming to conclusions based on reasoning from input but instead predicting answers based on the likelihood of the next characters that is assumed from the data that is available on the internet. There is no built-in calculator so there is no ability for it to check that its assumptions are correct (I have run into multiple occasions where ChatGPT will give its answer in this form ~3600 to show that it is calculating an approximation). Therefore, if I were to ask the bot to multiply 6789488 by 589683893 it would have trouble since there are likely no, or very few, sources with the answer to that specific problem. In this case, values got large quickly since we would square double-digit numbers in the second round of iterations. For more common problems like maybe something that is on a multiplication table like 7 times 12 there would be countless entries on the internet that would have the exact answer to that problem. Therefore the bot would fail much less, if at all. In my program the larger the numbers got the faster it would fail, and with the way the program was written the numbers would get fast really quick. The only number that would work was a number under 10 with an iteration under 3. So really it would only be able to do single to double digit multiplication.