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CART 498 – Assignment 3 Essay

The creation of the code behind Assignment 3 was a tumultuous one. There was a constant back-and-forth between my commands and Google Gemini misinterpreting them that lead to a very disorganized code structure. In addition, my misunderstanding of the assignment instructions might have also added to the chaos. However, it is thanks to that messy code structure that the bot can consistently fail.

The end result of my assignment is basically two bots comparing results with one another. The first bot (AI Template) was created with gpt-4.1-nano in mind and was meant to be the “correct” result. The second robot (AI Bot) was not created with gpt-4.1-nano (although it probably still used it). AI Bot was the self-deprecating loser of the two.

Now, due to the way Google Gemini placed the code cells, there was a method to have AI Bot fail on each comparison. At the start of the code, there is a cell where the user can input the base number (n) and the number of integers (i); this activates the result of the AI Template and said result is then stored in a variable. Near the end of the code, a similar input is done for the AI Bot; this process also saves the result as a variable. Now, I also told Google Gemini to create a comparison cell at the beginning of the code for ease of access. This comparison cell is

located right after the AI Template section of the code, meaning a user can change its “n” and “i” variables, but not those of the AI Bot. As a result, the AI Bot will always compare the AI Template’s old result, rather than the new one. This means that the AI Bot will always be in a losing state, unless the user changes its variables at the end of the code.

One last oddity was that during “Output 2”, both bots had different answers, despite having the same calculations; perhaps the commas messed up the token identification and confused the AI?