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The main goal of our lab was to create a program that would calculate the future population and tell the user whether the population increased or decreased. We made an algorithm based off the requirements learned in class to help us code the program. We made sure it was detailed, human readable, and effective. Our results did match what we expected to get, after making a few changes. The only challenge we really had was the first time we ran our program, our population outputted a floating number instead of an integer, which we were able to quickly change and fix. We followed the first 3 rules of programming by thinking before programming, making sure our program was a human readable essay that could be executed on a computer, and by understanding the problem. I definitely learned what was I was supposed to learn for this lab and enjoyed doing it as well. Working was Lucas was very helpful. We were able to help each other on different things which made the lab go very smooth. I think we both did our parts equally and thoroughly which led us to complete most of the lab during class.