**Analysis Questions:**

1. How could you apply a meaningful color palette to a weather satellite image showing temperatures or pressures?

For a weather satellite image, higher temperatures or pressures could be warmer colors, like red for extreme, orange for high, and yellow for moderate, while lower temperatures could use cooler colors, like green, blue and purple respectively.

1. What question(s) of your own did you answer while writing this program?

I successfully figured out how to use multiple operators, such as && for and, to let values sit in thresholds, such as (30 < x < 60), by writing them by (x > 30 && x < 60).

1. What unanswered question(s) do you have after writing this program?

What other types of operators exist that I can use in future projects?

**PMR:**

* The main point of this assignment was to use different operators for achieving a task, in this case, replacing ranges of grayscale colors with a unique new color palette.
* One was this assignment relates to a real-life situation is weather radars use different colors on a spectrum to signify different values/temperatures for the given area. This is done by replacing a range of data, such as temperatures, etc. into areas of a specific color.
* I have grown as a programmer since I can use the ‘AND’ and ‘OR’ operators in my future projects.
* The biggest problem I encountered was figuring out how to remove random white lines appearing in the image, and what I did was let one of the operates be less than and equal to, so that the last value in the range I was replacing was being counted, instead of being left blank.
* One thing I would want to try to do differently in the future is reduce the amount of lines I have in my code and make it shorter, and I am sure it can be done in some way since all my if statements are somewhat repetitive.
* This assignment could be extended by letting the program’s user choose the color palette or the ranges to replace.