1. My block project program will take in a large .jpg image and apply common filters (like the ones from Facebook/other popular social media sites) to the image to change the way it looks. The user will have the ability to apply multiple filters at once, resulting in an output of multiple images all with different filters.
2. By applying multiple filters at a single instance parallelism will result in improved performance because it will be faster than applying the selected filters one by one. Since we will be executing each filter on its own thread we will get better performance than if we were to execute the filters on one thread.
3. We can keep track of the time difference between the serial and parallel versions of the program to prove which program has better performance.