During development of the scan\_iceberg function I found that my code was running unexpectedly slowly. When running the function it would take around 70-80 seconds to complete. I spent a large part of the development process this way because I neglected to address the issue early on because I was more interested in using the available time to get the broad picture of the program down. This ended up being a mistake, because the time taken to run the code during testing and building was frustrating. Eventually I decided to look into it, and I found that I had written code to read the lidar\_file into a numpy array inside the for loop that searched for values in the lidar\_array.

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After moving these lines of code *outside* the for loop, I found the run time improved significantly. From 75 seconds to 0.2!

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