Today I tried to write codes to find the coordinates about the drone covering a specific field using Hexagonal Tessellation. It's tricky to consider that the latitude is the "x" variable and longitude is the "y" variable. Also, converting the latitude and longitude to metric is important, and since the field is not large, I chose to find the ratio between latitude and longitude and meter.

It is also interesting to find out if the vertical or horizontal rectangle will affect the efficiency.

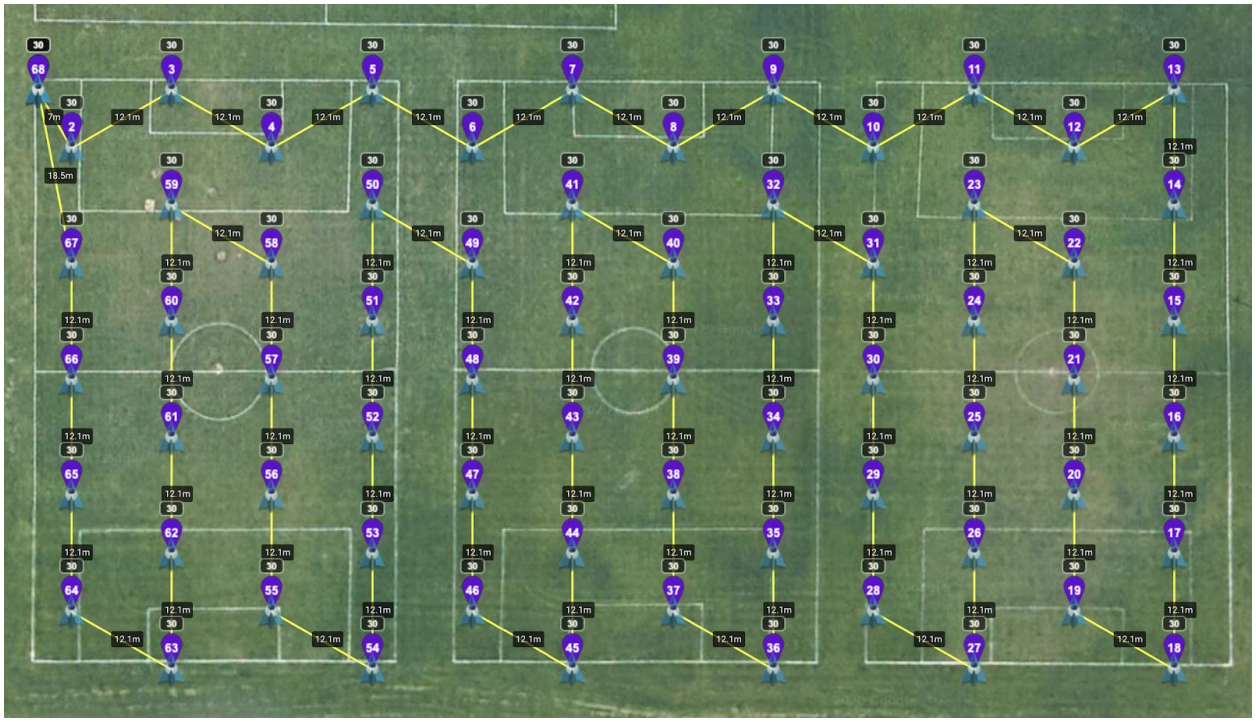
After coding, I think the easier way to complete today's task is to get the center points first and then use the Hamiltonian Circuit algorithm to find the order. In this way, it will fix all potential bugs that my code might have.

topLeft, bottomRight = (44.937541, -93.168826), (44.936920, -93.168255)

x = 45

y = 69.1

R = 5



topLeft, bottomRight = (44.924480, -93.161307), (44.923933, -93.159719)
x = 125.2
y = 60.9
r = 7