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I cooperate with Jinlun and did some experiment on the GPS. Unfortunately, I found the GPS’s precision is not enough for the project. The GPS module’s precision, according to the data sheet, is within 3 meters. But the library of the GPS shield store the latitude and altitude in float type which have only 7 digit precision. And after doing some research, I understand that the Arduino Uno can only deal with float type. That means the precision cannot be increased unless we use other more powerful chips. So the best result we can get is 10 meters. We will look into other methods but the hardware constraints is the bottleneck.