void beep (int fq, unsigned long duration,int t\_delay) {

unsigned long period = 1000000 / fq;

unsigned long turn = duration \* 1000 / period;

Serial.println(turn);

for (int i = 0; i < turn; i++) {

digitalWrite(3, 0);

delayMicroseconds(period / 2);

digitalWrite(3, 1);

delayMicroseconds(period / 2);

}

delay(t\_delay);

}

void m\_l () {

analogWrite(6, 150);

digitalWrite(7, 0);

}

void m\_r () {

analogWrite(6, 100);

digitalWrite(7, 1);

}

void ao() {

digitalWrite(6, 0);

digitalWrite(7, 0);

}

void step\_drive(int turn) {

while (turn != step\_count) {

if (turn < step\_count) {

digitalWrite(10, HIGH);

step\_count --;

}

else {

digitalWrite(10, LOW);

step\_count++;

}

digitalWrite(11, HIGH); // turn the LED on (HIGH is the voltage level)

delay(1); // wait for a second

digitalWrite(11, LOW); // turn the LED off by making the voltage LOW

delay(1);

}

}

void servo\_pos(int pos\_hand) {

int last\_hold = hold.read();

int last\_hand = hand.read();

while ( last\_hand != pos\_hand) {

if (last\_hand < pos\_hand) {

last\_hand++;

hand.write( last\_hand);

}

if (last\_hand > pos\_hand) {

last\_hand--;

hand.write( last\_hand);

}

delay(10);

}

}