```
#include <GyroLib_4.0.h>
#include <kipr/botball.h>
//Lebot's Legacy
//How will this affect Leborn's Legacy??
//Adam, Michael, Harouna
int main()
  create_connect();
 /*int line thresh;
  int range thresh = 2000;
  int lm;
  int rm;
  int bump;*/
  int servo0 = 3;
  int servo1 = 0;
  int servo2 = 2;
  int claw_open = 2047;
  int claw_close = 0; //
  int claw_rest = 800;
  //In start box:
  //servo0 = 0
  //servo1 = 0
  //servo2 = 800
//----- Lower Lebot's arm
void drive(int speed, int time)
  create_drive_with_gyro_advanced(speed,time, 10, 0);
  }
void servo_speed(int pos, int speed) //higher speed is slower
 if (get_servo_position(servo0) < pos)
 {
   int i;
   for (i = get_servo_position(servo0); i < pos; ++i)
    set_servo_position(servo0, i);
    set_servo_position(servo1, i);
    msleep(speed);
```

```
if (get_servo_position(servo0) > pos)
 int i;
   for (i = get_servo_position(servo0); i > pos; --i)
    set_servo_position(servo0, i);
    set_servo_position(servo1, i);
    msleep(speed);
void open claw()
  // claw open for start box
  set_servo_position(servo2,claw_open);
  msleep(500);
  }
void close_claw()
  set_servo_position(servo2,claw_close);
  msleep(500);
void rest_claw()
  set_servo_position(servo2,claw_rest);
  msleep(500);
void turn(int theta, int turnspeed)
  start_theta_tracker();
  create_turn_with_gyro_advanced(theta, turnspeed, 2, 0, 0); // mess with pk
  stop_theta_tracker();
}
  declare_degrees(644);// 90 degrees is 644 kipr degrees
           Goat
  enable_servos();
```

```
servo_speed(0,1);
rest_claw();
while(digital(0) == 0) //wait for button
}
msleep(1000);
open_claw();
                 //open claw
drive(100,800); //drive forward
close_claw();
                 //grab pom and cube
servo_speed(800,1); //lift claw
msleep(1000);
turn(20,300);
    drive(-100,3000); // aligns against pvc in start box
drive(50, 1500);
turn(-88, 100); // turns toward airlock
drive(100,14000); // drives to the airlock
return 0;
```

}