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#include <Servo.h>
#define trig 12
#define echo 13
#define vcc 11
Servo servo_9;
long duration;
int distance;
void setup()
{
    servo_9.attach(9);
    pinMode(trig,OUTPUT);
    pinMode(echo,INPUT);
    pinMode(vcc,OUTPUT);
    Serial.begin(9600);
    digitalWrite(vcc,HIGH);
}

void loop()
{
    digitalWrite(trig, LOW);
    delayMicroseconds(2);
    digitalWrite(trig, HIGH);
    delayMicroseconds(10);
    digitalWrite(trig, LOW);
    duration = pulseIn(echo,HIGH);
    distance = (duration*0.034)/2;
    if(distance<=30)
    {
        Serial.println(distance);
        servo_9.write(90);
    }
    else
        servo_9.write(0);
}

```