

```
int topleft;  
int topright;  
int downleft;  
int downright;  
int waittime = 1;
```

```
void setup() {  
  pinMode(9, OUTPUT);  
  pinMode(10, OUTPUT);  
  Serial.begin(9600);  
  ICR1 = 40000;  
  OCR1A = 3000;  
  OCR1B = 3600;  
}
```

```
void loop() {  
  topleft = analogRead(A0);  
  topright = analogRead(A1);  
  downleft = analogRead(A2);  
  downright = analogRead(A3);  
  Serial.print("A0 =");  
  Serial.println(topleft);  
  Serial.print("A1 =");  
  Serial.println(topright);  
  Serial.print("A2 =");  
  Serial.println(downleft);  
  Serial.print("A3 =");  
  Serial.println(downtight);  
  Serial.println("");  
  //delay(1000);  
  if (topleft > topright) {  
    OCR1A = OCR1A - 1;  
    delay(waittime);  
  }  
  if (topleft < topright) {  
    OCR1A = OCR1A + 1;  
    delay(waittime);  
  }  
  if (downleft < downright) {  
    OCR1A = OCR1A + 1;  
    delay(waittime);  
  }  
  if (OCR1A > 4000) {
```

```
OCR1A = 4000;
}
if (OCR1A < 2000) {
OCR1A = 2000;
}
if (topright > downright) {
OCR1B = OCR1B - 1;
delay(waittime);
}
if (topleft < downleft) {
OCR1B = OCR1B + 1;
delay(waittime);
}
if (topright < downright) {
OCR1B = OCR1B + 1;
delay(waittime);
}
}
```