```
#include <Servo.h>
//defining Servos
Servo servohori;
int servoh = 0;
int servohLimitHigh = 160;
int servohLimitLow = 20;
Servo servoverti;
int servov = 0;
int servovLimitHigh = 160;
int servovLimitLow = 20;
//Assigning LDRs
int ldrtopl = 2; //top left LDR green
int ldrtopr = 1; //top right LDR yellow
int ldrbotl = 3; // bottom left LDR blue
int ldrbotr = 0; // bottom right LDR orange
void setup ()
 servohori.attach(10);
 servohori.write(0);
 servoverti.attach(9);
 servoverti.write(0);
 delay(500);
}
void loop()
{
 servoh = servohori.read();
```

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servov = servoverti.read();
//capturing analog values of each LDR
int topl = analogRead(ldrtopl);
int topr = analogRead(ldrtopr);
int botl = analogRead(ldrbotl);
int botr = analogRead(ldrbotr);
// calculating average
int avgtop = (topl + topr) / 2; //average of top LDRs
int avgbot = (botl + botr) / 2; //average of bottom LDRs
int avgleft = (topl + botl) / 2; //average of left LDRs
int avgright = (topr + botr) / 2; //average of right LDRs
if (avgtop < avgbot)
 servoverti.write(servov +1);
 if (servov > servovLimitHigh)
  servov = servovLimitHigh;
 }
 delay(10);
}
else if (avgbot < avgtop)</pre>
{
 servoverti.write(servov -1);
 if (servov < servovLimitLow)</pre>
{
 servov = servovLimitLow;
 delay(10);
```

```
}
else
 servoverti.write(servov);
}
if (avgleft > avgright)
{
 servohori.write(servoh +1);
 if (servoh > servohLimitHigh)
 {
 servoh = servohLimitHigh;
 }
 delay(10);
else if (avgright > avgleft)
{
 servohori.write(servoh -1);
 if (servoh < servohLimitLow)</pre>
 {
 servoh = servohLimitLow;
 }
 delay(10);
}
else
{
 servohori.write(servoh);
}
delay(50);
```