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```
// OTCarTest
// A simple test program for OTCar, will make the OTCar move forward, backward,
// turn right and turn left for specific seconds.
// http://www.osslab.com.tw/Hardware/Open_Embedded_System/MCU/AVR/Arduino/Remote_Car

/* Input for motorA:
  IN1  IN2  Action
  LOW  LOW  Motor Stop
  HIGH LOW  Motor moves forward
  LOW  HIGH Motor moves backward
  HIGH HIGH Motor Stop
*/
const int motorIn1 = 5;
const int motorIn2 = 6;
const int motorIn3 = 10; // ?? L298N module IN3 ? IN4 ???????
const int motorIn4 = 9; // ?????? IN3, IN4 ?????

const int DELAY = 1000;

void setup()
{
  pinMode(motorIn1, OUTPUT);
  pinMode(motorIn2, OUTPUT);
  pinMode(motorIn3, OUTPUT);
  pinMode(motorIn4, OUTPUT);
}

void loop()
{
  selfTest();
}

void selfTest()
{
  forward();
  delay(DELAY);
  motorstop(); delay(500);

  backward();
  delay(DELAY);
  motorstop(); delay(500);

  right();
```

```
delay(DELAY);  
motorstop(); delay(500);
```

```
left();  
delay(DELAY);  
motorstop(); delay(500);  
}
```

```
void motorstop()  
{  
  digitalWrite(motorIn1, LOW);  
  digitalWrite(motorIn2, LOW);  
  digitalWrite(motorIn3, LOW);  
  digitalWrite(motorIn4, LOW);  
}
```

```
void forward()  
{  
  digitalWrite(motorIn1, HIGH);  
  digitalWrite(motorIn2, LOW);  
  digitalWrite(motorIn3, HIGH);  
  digitalWrite(motorIn4, LOW);  
}
```

```
void backward()  
{  
  digitalWrite(motorIn1, LOW);  
  digitalWrite(motorIn2, HIGH);  
  digitalWrite(motorIn3, LOW);  
  digitalWrite(motorIn4, HIGH);  
}
```

```
// Let right motor keep running, but stop left motor
```

```
void right()  
{  
  digitalWrite(motorIn1, HIGH);  
  digitalWrite(motorIn2, LOW);  
  digitalWrite(motorIn3, LOW);  
  digitalWrite(motorIn4, LOW);  
}
```

```
// Let left motor keep running, but stop right motor
```

```
void left()  
{  
  digitalWrite(motorIn1, LOW);
```

```
digitalWrite(motorIn2, LOW);  
digitalWrite(motorIn3, HIGH);  
digitalWrite(motorIn4, LOW);  
}
```