let receivedVal = 0;

let racer0: number[][] =[];

let racer1: number[][] =[];

let end = 0;

let start = 0;

let lap = 0;

let state = 0;

let logo = 0;

pins.setPull(DigitalPin.P1, PinPullMode.PullUp);

radio.setTransmitPower(7);

radio.setGroup(14);

basic.forever(() => {

if (0 == state && 1 == pins.digitalReadPin(DigitalPin.P1)) {

start = input.runningTime();

state = 1;

logo = 1;

} else if (1 == state && 800 < pins.analogReadPin(AnalogPin.P0)) {

end = input.runningTime();

state = 0;

lap = end - start;

logo = 2;

while (racer0.length > 0) {

let time0 = racer0.get(0).get(0);

let val0 = racer0.get(0).get(1);

serial.writeLine(time0 + " " + val0);

racer0.removeAt(0);

}

serial.writeLine("Other\_Racer");

while (racer1.length > 0) {

let time1 = racer1.get(0).get(0);

let val1 = racer1.get(0).get(1);

serial.writeLine(time1 + " " + val1);

racer1.removeAt(0);

}

} else if (input.buttonIsPressed(Button.B)) {

lap = 0;

end = 0;

start = 0;

state = 0;

logo = 0;

}

});

basic.forever(() => {

if (1 == logo) {

basic.showLeds(`

. # # # .

# . # . #

# . # # #

# . . . #

. # # # .

`);

led.plot(0, 0);

receivedVal = radio.receiveNumber();

if ((receivedVal & (1 << 13)) == 0) {

// Racer 0

if ((receivedVal & (1 << 12)) == 0) {

racer0.push([input.runningTime() - start, receivedVal]);

} else {

racer0.push([input.runningTime() - start, -1 \* (receivedVal & 0xFFF)]);

}

} else {

// Racer 1

if ((receivedVal & (1 << 12)) == 0) {

racer1.push([input.runningTime() - start, receivedVal & 0xFFF]);

} else {

racer1.push([input.runningTime() - start, -1 \* (receivedVal & 0xFFF)]);

}

}

} else if (0 == logo) {

basic.showLeds(`

# # # # .

# . . . #

# # # # .

# . # . .

# . . # #

`);

} else {

basic.showNumber(lap);

}

serial.writeNumber(lap);

});