```
#define LEDPIN 13
//you may increase this value on Arduinos with greater than 2k SRAM
#define maxLen 300
volatile  unsigned int irBuffer[maxLen]; //stores timings - volatile bec
ause changed by ISR
volatile unsigned int x = 0; //Pointer thru irBuffer - volatile because
changed by ISR
void setup() {
 Serial.begin(115200); //change BAUD rate as required
 attachInterrupt(0, rxIR_Interrupt_Handler, CHANGE);//set up ISR for rec
eiving IR signal
}
void loop() {
 // put your main code here, to run repeatedly:
 Serial.println(F("Press the button on the remote now - once only"));
 delay(5000); // pause 5 secs
 if (x) { //if a signal is captured
   digitalWrite(LEDPIN, HIGH);//visual indicator that signal received
   Serial.println();
   Serial.print(F("Raw: (")); //dump raw header format - for library
   Serial.print((x - 1));
   Serial.print(F(") "));
   detachInterrupt(0);//stop interrupts & capture until finshed here
   for (int i = 1; i < x; i++) { //now dump the times
     if (!(i & 0x1)) Serial.print(F("-"));
     Serial.print(irBuffer[i] - irBuffer[i - 1]);
     Serial.print(F(", "));
   }
   x = 0;
   Serial.println();
   Serial.println();
   digitalWrite(LEDPIN, LOW);//end of visual indicator, for this time
   attachInterrupt(0, rxIR_Interrupt_Handler, CHANGE);//re-enable ISR fo
r receiving IR signal
 }
}
void rxIR_Interrupt_Handler() {
 if (x > maxLen) return; //ignore if irBuffer is already full
 irBuffer[x++] = micros(); //just continually record the time-stamp of s
ignal transitions
}
```