```
// C++ code
//
int sensorState = 0;
int counter = 0;
int totalCounter = 0;

void setup()
{
  pinMode(2, INPUT);
  Serial.begin(9600);
}

void loop()
{
  // get state of sensor, may have to modify when using actual sensor
  sensorState = digitalRead(2);
  // check if sensor is on
  if (sensorState == HIGH){
    counter++;
  } else {
    if (counter > 250){ // do if was on for long enough
      totalCounter ++;
      Serial.print("Sensor on for ");
      Serial.print(counter);
      Serial.println(" miliseconds");
      Serial.print("Total sensor count: ");
      Serial.println(totalCounter);
      counter = 0;
      // add code to store the data to an sd card, may have to modify code to keep track of time
    }
  }
  delay(1); // loops every milisecond, may change this if it runs poorly
}
```