

```
threshold = 5%
```

```
for sensor_index in num_sensors:  
    background[sensor_index] = read_sensor[sensor_index]
```

```
While True
```

```
    for sensor_index in num_sensors:  
        current_reading[sensor_index] = read_sensor[sensor_index]  
  
        //2 bytes per color channel =  $2^8 = 65536$   
        percent_change[sensor_index] = abs(background[sensor_index] -  
current_reading[sensor_index]) / 65536 * 100  
        if percent_change[sensor_index] > threshold  
            occupied[sensor_index] = True  
        else  
            occupied[sensor_index] = False  
  
    output_occupancy_matrix(occupied)
```