

```
ch2=ch3;
ch3=ch4;
get_char (&pin_port, pin_in, &ch4);
}
char ch_hi,ch_low;
get_char (&pin_port, pin_in, &ch_hi);
get_char (&pin_port, pin_in, &ch_low);
uint16_t val=ch_hi;
val=(val<<8)+ch_low;
//THIS IS MY READING!

uint16_t test_low = 256;
uint16_t test_med = 512;
uint16_t test_high = 768;

if (val > test_low && val > test_med) {
//quiet
    uint16_t i;
    for (i=0; i < 10; ++i) {
        led_cycle(1,100);
    }
}

if (val < test_low) {
//very quiet
    uint16_t i;
    for (i=0; i < 10; ++i) {
        led_cycle(3,20);
    }
}

if (val > test_med && val > test_high) {
//loud
    uint16_t i;
    for (i=0; i < 10; ++i) {
        led_cycle(50,3);
    }
}

if (val > test_high) {
//very loud
    uint16_t i;
    for (i=0; i < 10; ++i) {
        led_cycle(100,1);
    }
}
}
}
```