```c
1  /**
2   * \file
3   * Functions and types for CRC checks.
4   *
5   * Generated on Wed Sep 11 13:55:53 2019
6   * by pycrc v0.9.2, https://pycrc.org
7   * using the configuration:
8   *  - Width         = 8
9   *  - Poly          = 0x07
10  *  - XorIn         = 0x00
11  *  - ReflectIn     = False
12  *  - XorOut        = 0x00
13  *  - ReflectOut    = False
14  *  - Algorithm     = bit-by-bit-fast
15  */
16 #include "crc.h"     /* include the header file generated with pycrc */
17 #include <stdlib.h>
18 #include <stdint.h>
19 #include <stdbool.h>
20
21
22
23 crc_t crc_update(crc_t crc, const void *data, size_t data_len)
24 {
25     const unsigned char *d = (const unsigned char *)data;
26     unsigned int i;
27     bool bit;
28     unsigned char c;
29
30     while (data_len--) {
31         c = *d++;
32         for (i = 0x80; i > 0; i >>= 1) {
33             bit = crc & 0x80;
34             if (c & i) {
35                 bit = !bit;
36             }
37             crc <<= 1;
38             if (bit) {
39                 crc ^= 0x07;
40             }
41         }
42         crc &= 0xff;
43     }
44     return crc & 0xff;
45 }
46
```