

```
1 | #include "../include/bit_counter.h"
2 |
3 | int bit_counter(void) {
4 |     int counter = 0;
5 |     int n_new = 0;
6 |     int n_old = 1;
7 |     while (1)
8 |     {
9 |         n_new = 2 * n_old;
10 |        counter++;
11 |        if (n_new == n_old)
12 |        {
13 |            counter--;
14 |            return counter;
15 |        }
16 |        n_old = n_new;
17 |    }
18 | }
```