<https://www.geeksforgeeks.org/count-set-bits-in-an-integer/>

**Brian Kernighan’s Algorithm:**

1 Initialize count: = 0

2 **If** integer n is not zero

(a) Do bitwise & with (n-1) and assign the value back to n

n: = n&(n-1)

(b) Increment count by 1

(c) go to step 2

3 **Else** return count

Code bit:

**def** countSetBits(n):

    # base case

**if** (n **==** 0):

**return** 0

**else**:

**return** 1 **+** countSetBits(n & (n **-** 1))