

Number of 1 Bits - LeetCode

笔记本: leetcode
创建时间: 2024/9/18 11:02
URL: <https://leetcode.com/problems/number-of-1-bits/description/>

191. Number of 1 Bits

Write a function that takes the binary representation of a positive integer and returns the number of set bits it has (also known as the [Hamming weight](#)).

Example 1:

Input: n = 11

Output: 3

Explanation:

The input binary string **1011** has a total of three set bits.

Example 2:

Input: n = 128

Output: 1

Explanation:

The input binary string **10000000** has a total of one set bit.

Example 3:

Input: n = 2147483645

Output: 30

Explanation:

The input binary string **1111111111111111111111111111101** has a total of thirty set bits.

Constraints:

- $1 \leq n \leq 2^{31} - 1$

Follow up: If this function is called many times, how would you optimize it?