

## Topics to discuss

Bit manipulation Problem - 2

- Count the no. of set bit or 1-bit.



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## 191. Number of 1 Bits

Easy

Topics

## Companies

Write a function that takes the binary representation of an unsigned integer and returns the number of '1' bits it has (also known as the **Hamming weight**).

**Note:**

- Note that in some languages, such as Java, there is no unsigned integer type. In this case, the input will be given as a signed integer type. It should not affect your implementation, as the integer's internal binary representation is the same, whether it is signed or unsigned.
- In Java, the compiler represents the signed integers using **2's complement notation**. Therefore, in **Example 3**, the input represents the signed integer. **-3**.

### Example 1:

**Input:** n = 000000000000000000000000000001011

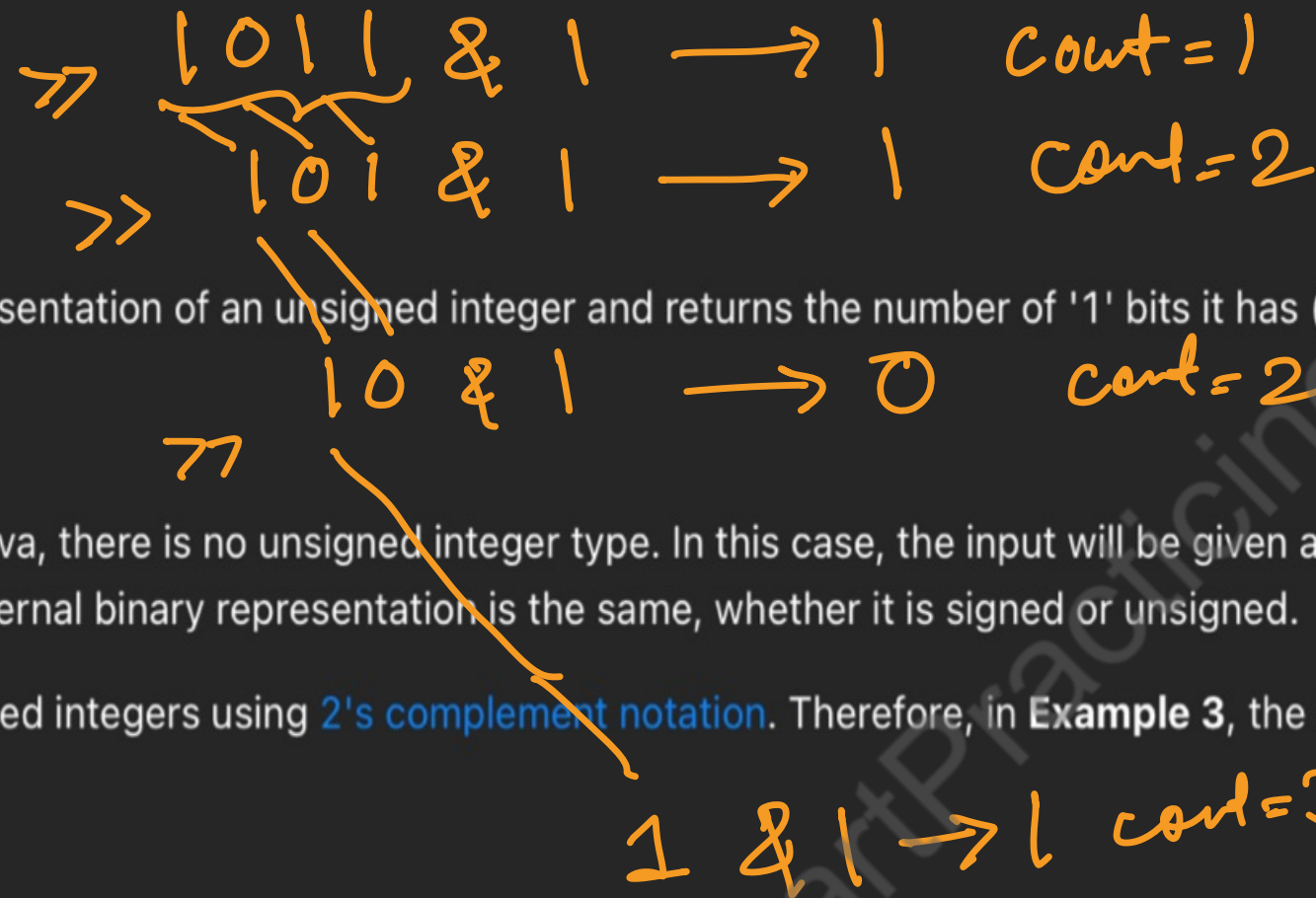
**Output:** 3

[illegible]

### Example 2:

**Input:** n = 00000000000000000000000000000001000000

**Output:** 1

[illegible]

```
static int solution(int n) {  
    int count = 0;  
    for (int i = 0; i < 32; i++) {  
        if ((n & 1) == 1)  
            count++;  
        n = n >> 1;  
    }  
    return count;  
}
```

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