(任选其一)

1. Bit Counting

Write a function that takes an (unsigned) integer as input, and returns the number of bits that are equal to one in the binary representation of that number.

Example: The binary representation of 1234 is 10011010010, so the function should return 5 in this case

2. Median of Two Sorted Arrays

There are two sorted arrays nums1 and nums2 of size m and n respectively.

Find the median of the two sorted arrays. The overall run time complexity should be O(log (m+n)).

You may assume nums1 and nums2 cannot be both empty.

Example 1:

```
The median is (2
                                                                                                4
                                                                            2
                                     The median is
                                                                            nums1 = [1,
                                                                                              nums2 = [3,
nums1 = [1,
                  \mathsf{nums2} = [2]
                                                       Example 2:
```

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