## Bit-Manipulation







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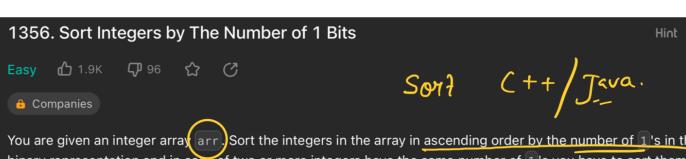
Sort Integers

The Number Of

1 bils







You are given an integer array arr. Sort the integers in the array in ascending order by the number of 1's in their binary representation and in case of two or more integers have the same number of 1's you have to sort them in ascending order.

Return the array after sorting it.

Before we start, we should know to write comparator/lamba

or Sort.

return 
$$\frac{1}{1}$$
  $\frac{1}{1}$   $\frac{1}$   $\frac{1}{1}$   $\frac{1}{1}$   $\frac{1}{1}$   $\frac{1}{1}$   $\frac{1}{1}$   $\frac{1}{1}$ 

$$\Rightarrow \text{num} = 1101$$

$$\frac{0000}{000} \leftarrow \text{one}$$



0001 € one

nvm = 00000 20000 0000

App: 2 O(nlogn) overall.

C++ = --builtin\_popcount (nom); //O(1)

JAVA = Integer. bitCount (nom); //o(1)

