Topics to discuss

Bit manipulation   Problem - 3

- Hamming Distance

LeetCode

461. Hamming Distance

Easy   🏷 Topics   🔒 Companies

The Hamming distance between two integers is the number of positions at which the corresponding bits are different.

Given two integers x and y, return *the **Hamming distance** between them*.

0 1 0 ~~1~~

0 0 0 1
0 1 0 0
―――――――――
3 2 1 0
  ↑   ↑

→ \ \ \
      0 1 0

Example 1:

```
Input: x = 1, y = 4
Output: 2
Explanation:
1   (0 0 0 1)
4   (0 1 0 0)
      ↑   ↑
The above arrows point to positions where the corresponding bits are different.
```
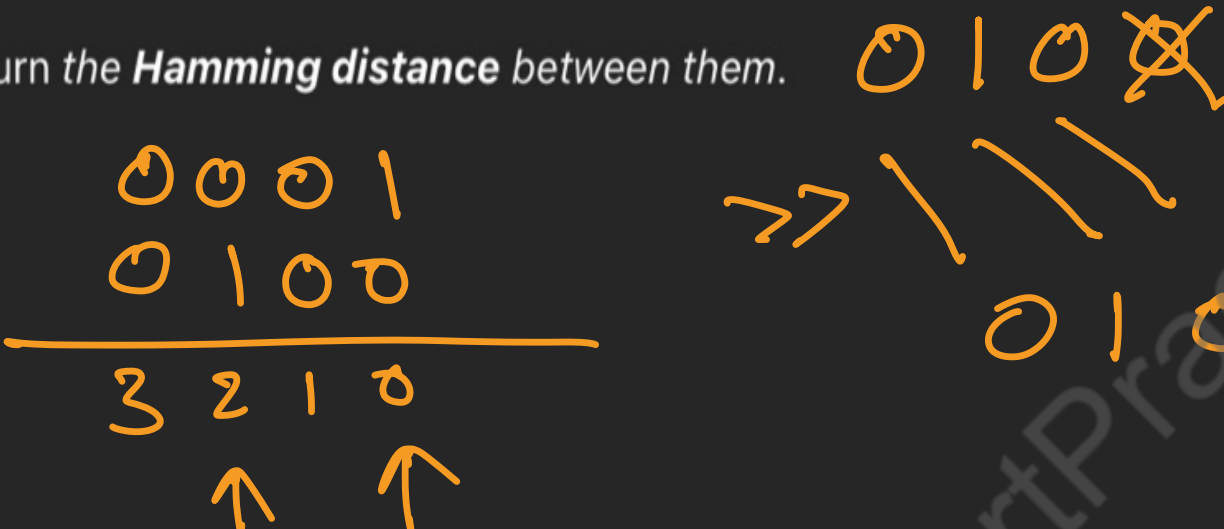
Example 2:

```
Input: x = 3, y = 1
Output: 1
```

```
static int solution (int x, int y) {
    int count = 0;
    for (int i=0 ; i<= 32 ; i++) {
        if ((x & 1) != (y & 1))
            count ++;

        x = x >> 1;
        y = y >> 1;
    }
    return count;
}
```

Follow Now

Start Practicing

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