



William Ting &lt;williamdjting@gmail.com&gt;

**FW: Hamming Distance**

1 message

**William Ting** <william\_ting\_2@sfu.ca>  
To: "williamdjting@gmail.com" <williamdjting@gmail.com>

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**To:** William Ting  
**Subject:** Hamming Distance

## The Daily Byte

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### Today's Byte

This question is asked by Facebook. Given two integers

`x` and

`y`, return the hamming distance between the two numbers.

Note: The hamming distance between two numbers is the number of bit positions in which the bits differ.

Ex: Given the following integers

`x` and

`y ...`

```
x = 2, y = 4, return 2.
```

```
2 in binary is 0 0 1 0
```

```
4 in binary is 0 1 0 0
```

```
therefore the number of positions in which the bits differ is  
two.
```

Thanks,  
The Daily Byte

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