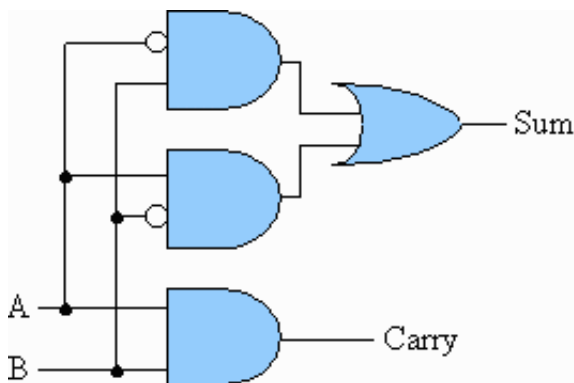


Problem G:

To Carry or not to Carry

Time Limit: 1 second

Memory Limit: 32 MB



6+9=15 seems okay. But how come 4+6=2?

You see, Mofiz had worked hard throughout his digital logic course, but when he was asked to implement a 32 bit adder for the laboratory exam, he did some mistake in the design part. After tracing the design for half an hour, he found his flaw!! He was doing bitwise addition but his carry bit always had zero output. Thus,

```

4 = 00000000 00000000 00000000 00000100
+6 = 00000000 00000000 00000000 00000110
-----
2 = 00000000 00000000 00000000 00000010

```

Its a good thing that he finally found his mistake, but it was too late. Considering his effort throughout the course, the instructor gave him one more chance. Mofiz has to write an efficient program that would take **2 unsigned 32 bit decimal numbers** as input, and produce an **unsigned 32 bit decimal number** as the output adding in the same was as his circuit does.

Input

In each line of input there will be a pair of integer separated by a single space. Input ends at EOF.

Output

For each line of input, output one line -- the value after adding the two numbers in the "Mofiz way".

Sample Input

4 6

6 9

Sample Output

2

15

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"that you used cut and paste there is really nerdy." -- goose

"really? i use cut and paste all the time." -- trip

Collected from: [nerd quotes](#)