

# Sum Bitwise Operator • [Mark Senn](#) • Last updated on 2022-05-07 at 16:18-04:

## Problem Statement

From [The Weekly Challenge - 163 Task #1:Sum Bitwise Operator](#) retrieved on 2022-05-04 at 17:39-04:

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You are given list positive numbers, @n.

Write script to calculate the sum of bitwise & operator for all unique pairs.

### Example 1:

Input: @n = (1, 2, 3)

Output: 3

Since  $(1 \& 2) + (2 \& 3) + (1 \& 3) \Rightarrow 0 + 2 + 1 \Rightarrow 3$ .

### Example 2:

Input: @n = (2, 3, 4)

Output: 2

Since  $(2 \& 3) + (2 \& 4) + (3 \& 4) \Rightarrow 2 + 0 + 0 \Rightarrow 2$ .

## Raku Solution

```
# Use version 6.d of the Raku language.
use v6.d;

Test((1, 2, 3));
Test((2, 3, 4));

sub Test(@array)
{
    my @n = @array;

    say "Input : @n = ({@n.join(', ')});";

    say 'Output: ' ~ combinations(@n, 2).map({[+&] $_}).sum;
}
```