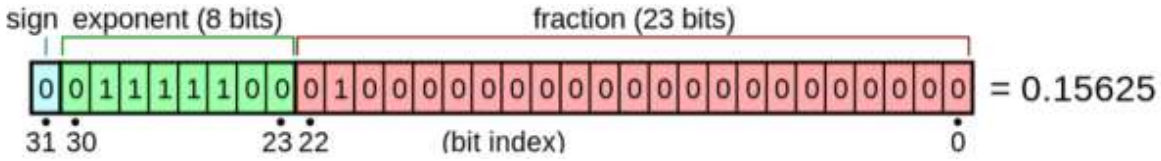
PRE-EVALUATION TEST

Create a PHP function that takes an array of 32 boolean values (zeroes and ones) as parameter, and answers with a numeric value.

The result value must be calculated by processing the array parameter, which symbolizes an IEE-754 compliant Floating Point Single Precision 32bit value, as shown in the following example:



In order to do so, you must use the following formula:

$$\text{value} = (-1)^{\text{sign}} \left(1 + \sum_{i=1}^{23} b_{23-i} 2^{-i}\right) \times 2^{(e-127)}.$$

You can see https://en.wikipedia.org/wiki/Single-precision_floating-point_format for further details and examples.