BACK

Array Packing

DESCRIPTION SOLUTIONS 10832 COMMENTS 31 CODEWRITING SCORE: 300/300

You are given an array of up to four non-negative integers, each less than `256`.

Your task is to pack these integers into one number `M` in the following way:

- The first element of the array occupies the first `8` bits of `M`;
- The second element occupies next `8` bits, and so on.

Return the obtained integer `M`.

Note: the phrase *"first bits of `M`"* refers to the *least significant bits* of `M` - the right-most bits of an integer. For further clarification see the following example.

Example

For `a = [24, 85, 0]`, the output should be
`arrayPacking(a) = 21784`.

An array `[24, 85, 0]` looks like `[00011000, 01010101, 00000000]` in binary.
After packing these into one number we get `00000000 01010101 00011000` (spaces are placed for convenience), which equals to `21784`.

Input/Output

- **[execution time limit] 4 seconds (js)**
- **[input] array.integer a**

  Guaranteed constraints:
  `1 ≤ a.length ≤ 4`,
  `0 ≤ a[i] < 256`.

- **[output] integer**

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console
// Returns a string
function helloWorld(name) {
    console.log("This prints to the console when you Run Tests");
    return "Hello, " + name;
}
```