**BACK** 

## Array Conversion





DESCRIPTION

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CODEWRITING SCORE: 300/300

Given an array of 2<sup>k</sup> integers (for some integer k), perform the following operations until the array contains only one element:

- On the 1st, 3rd, 5th, etc. iterations (1-based) replace each pair of consecutive elements with their sum;
- On the 2<sup>nd</sup> , 4<sup>th</sup> , 6<sup>th</sup> , etc. iterations replace each pair of consecutive elements with their product.

After the algorithm has finished, there will be a single element left in the array. Return that element.

## **Example**

```
For inputArray = [1, 2, 3, 4, 5, 6, 7, 8], the output should be arrayConversion(inputArray) = 186.

We have [1, 2, 3, 4, 5, 6, 7, 8] -> [3, 7, 11, 15] -> [21, 165] -> [186], so the answer is 186.
```

## Input/Output

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

```
Guaranteed constraints:
1 ≤ inputArray.length ≤ 20,
-9 ≤ inputArray[i] ≤ 99.
```

• [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;
}
```