Given an array of functions [f1, f2, f3, ..., fn], return a new function fn that is the ****function composition**** of the array of functions.

The ****function composition**** of [f(x), g(x), h(x)] is fn(x) = f(g(h(x))).

The ****function composition**** of an empty list of functions is the ****identity function**** f(x) = x.

You may assume each function in the array accepts one integer as input and returns one integer as output.

Solutions

/\*\*

 \* @anmol{Function[]} functions

 \* @return {Function}

 \*/

var compose = function(functions) {

    if (functions.length === 0) {

        return function(x) {

            return x

        }

    } else {

        return function(x) {

            let result = x

            for (let i = functions.length - 1; i >= 0; i--) {

                result = functions[i](result)

            }

            return result;

        }

    }

};