**5 kyu**

**Simple Fun #220: Simplified Array**

5196% of1232[myjinxin2015](https://www.codewars.com/users/myjinxin2015)

JavaScript

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* |
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* #Task You're given an array arr. Apply the following algorithm to it:
* find intervals of consecutive prime numbers and consecutive non-prime numbers;
* replace each such interval with the sum of numbers in it;
* if the resulting array is different from the initial one, repeat the process;
* otherwise return the resulting array.

Note: here non-prime numbers include 0, 1 and all negative numbers.

* #Input/Output
* [input] integer array arr

A non-empty array.

1 ≤ arr.length ≤ 1000

abs(arr[i]) ≤ 10000

* [output] an integer array

The resulting array.

* #Example

For arr = [1, 2, 3, 5, 6, 4, 2, 3], the output should be [21, 5]

[1,2,3,5,6,4,2,3] --> [1, 2 + 3 + 5, 6 + 4, 2 + 3] --> [1, 10, 10, 5]

[1, 10, 10, 5] --> [1 + 10 + 10, 5] --> [21,5]

For arr = [-3, 4, 5, 2, 0, -10], the output should be [1, 7, -10]

[-3, 4, 5, 2, 0, -10] --> [-3+4, 5+2, 0+-10] --> [1, 7, -10]

<https://www.codewars.com/kata/simple-fun-number-220-simplified-array/javascript>

**function** EsPrimo( n)

{

**if** (n < 2) **return** **false**;

**if** (n == 2) **return** **true**;

**if** (n % 2 == 0) **return** **false**;

**for** (let i = 3; i \* i <= n; i += 2)

    {

**if** (n % i == 0) **return** **false**;

    }

**return** **true**;

}

**function** SumarArray( arr)

{

**var** sumPrimos = 0;

**var** sumNoPrimos = 0;

**var** flagNo = **new** Boolean(**false**);

**var** flagPrimos = **new** Boolean(**false**);

**var** ans = [];

**for** (let i = 0; i < arr.length; i++)

    {

**if** (EsPrimo(arr[i]))

        {

            flagPrimos = **true**;

            sumPrimos += arr[i];

**if** (flagNo == **true**)

            {

                ans.push(sumNoPrimos);

            }

            flagNo = **false**;

            sumNoPrimos = 0;

        }

**else**

        {

            flagNo = **true**;

            sumNoPrimos += arr[i];

**if** (flagPrimos == **true**)

            {

                ans.push(sumPrimos);

            }

            flagPrimos = **false**;

            sumPrimos = 0;

        }

    }

**if** (flagNo == **true**)

    {

**if**(flagNo) ans.push(sumNoPrimos);

    }

**if** (flagPrimos == **true**)

    {

**if**(flagPrimos) ans.push(sumPrimos);

    }

**return** ans;

}

**function** simplifiedArray(arr) {

**var** len\_anterior = arr.Length;

**var** len\_res = 0;

**var** res = arr;

    while (len\_anterior != len\_res)

    {

        len\_anterior = res.length;

        res = SumarArray(res);

        len\_res = res.length;

    }

**return** res;

}

**var** arr = [ -3, 4, 5, 2, 0, -10 ];

**var** res = simplifiedArray(arr);

**for** (let i = 0; i < res.length; i++)

{

*//Console.Write(res[i] + " ");*

    document.write(res[i]);

}