# **Advent JS**

### Retos y regalos de programación navideños

Ejercicio 2

```
270 puntos
                    Reto #2: 🚂 Ponemos en marcha la fábrica 🗸
                                                                                                           🐧 Ir al siguiente reto 🗕
                                                             JS TS
function manufacture(gifts, materials) {
                                                                               Instrucciones
   const availableMaterials = new Set(materials);
   const manufacturableGifts = [];
   for (const gift of gifts) {
    let canManufacture = true;
    for (const char of gift) {
                                                                                     Puntos
                                                                                     conseguidos: 270
           if (!availableMaterials.has(char)) {
               canManufacture = false;
                                                                                  2496 ops/s (Más alto es mejor)
                                                                                  Complejidad cognitiva: 3 (Más bajo es mejor) ①
        if (canManufacture) {
           manufacturableGifts.push(gift);
                                                                               🤯 iTodos los tests
   return manufacturableGifts;
                                                                                    pasaron!
                                                                              Test #01
```

# Código JS: function manufacture(gifts, materials) {

```
function manufacture(gifts, materials) {
  const availableMaterials = new Set(materials);
  const manufacturableGifts = [];

  for (const gift of gifts) {
    let canManufacture = true;
    for (const char of gift) {
        if (!availableMaterials.has(char)) {
            canManufacture = false;
            break;
        }
    }
    if (canManufacture) {
        manufacturableGifts.push(gift);
    }
}
```

```
}
return manufacturableGifts;
}
```

Ejercicio 3



### Código JS:

```
function findNaughtyStep(original, modified) {
  if (original === modified) {
    return '';
}

const lengthDiff = modified.length - original.length;

if (lengthDiff === 1) {
  for (let i = 0; i < modified.length; i++) {
    if (original[i] !== modified[i]) {
      return modified[i];
    }
  }
}</pre>
```

```
} else if (lengthDiff === -1) {
    for (let i = 0; i < original.length; i++) {
        if (original[i] !== modified[i]) {
            return original[i];
        }
     }
   }
}
return '';
}</pre>
```

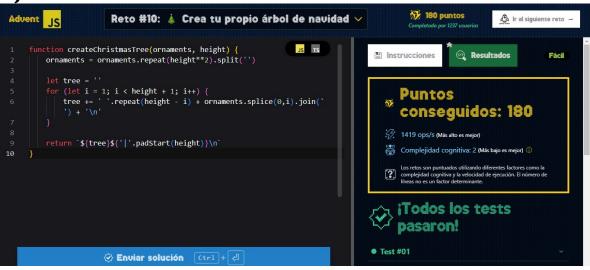
### Ejercicio 6



# Código JS: function maxDistance(movements) { let distancia = 0; let comodines = 0; for (const signo of movements) { if (signo === '>') distancia++; if (signo === '<') distancia--; if (signo === '\*') comodines++;</pre>

```
return Math.abs(distancia) + comodines;
}
```

### Ejercicio 10



## Código:

```
function createChristmasTree(ornaments, height) {
    ornaments = ornaments.repeat(height**2).split('')

let tree = ''
    for (let i = 1; i < height + 1; i++) {
        tree += ' '.repeat(height - i) +
    ornaments.splice(0,i).join(' ') + '\n'
    }

return `${tree}${'|'.padStart(height)}\n`
}</pre>
```