

## Algoritmo II

① function a() {  
 console.log('Hello');  
}

Respt: Hello

② function a() {  
 console.log('Hello');  
 return 15;  
} x = a();  
console.log('x is', x);

Hello - 'x is' 15 Respt

③ function a(n) {  $n=3$   
 console.log('n is', n);  
 return n+15;  
} x = a(3);  
console.log('x is', x);

'n is' 3 - 'x is' 18 Respt

④ function a(n) {  $n=3$   
 $n=5$   $\Rightarrow$  'n is' 5  
 console.log('n is', n);  $\Rightarrow$  'n is' 3  
 y = n \* 2;  
 return y;  
} x = a(3) + a(5);  
console.log('x is', x);

$x = 6 + 10 = 16$   
 'x is' 16 Respt

⑤ function op(a, b) {  $a=2$   $b=3$   
 $a=3$   $b=5$   
 c = a + b;  
 console.log('c is', c);  
 return c;  
} x = op(2, 3) + op(3, 5);  
console.log('x is', x);

'c is' 5 'c is' 8  
 $x = 5 + 8 = 13$   
 console.log('x is', 13)  
 Respt = 'x is' 13

⑥ function op(a, b) {  $a=2$   $b=3$   $x = 5 + 6 + 8 = 19$   
 c = a + b;  
 console.log('c is', c);  
 return c;  
} x = op(2, 3) + op(3, op(2, 1)) + op(op(2, 1), op(2, 3));  
console.log('x is', x)

Respt: 'x is' 19

$op(6, 8) = 6 + 8$

⑦ `var x = 15;`  
`function a() {`  
`var x = 10; (no return)`  
`}`  
`console.log(x);`  
`a();`  
`console.log(x);`  
`console.log(15);`  
`console.log(15);`  
Respt: 15, 15

⑧ `function multiply(x, y) {`  
`console.log(x); x = 2`  
`console.log(y); y = 3`  
`}`  
`b = multiply(2, 3);`  
`console.log(b);`  
Respt `console.log(2) = 2`  
`"      " (3) = 3`  
`UNDEFINED`

⑨ `function multiply(x, y) {`  
`x = 5`  
`y = 2`  
`return x * y;`  
`}`  
`b = multiply(2, 3);`  
`console.log(b);`  
`console.log(multiply(5, 2));`  
Respt `console.log(6) = 6`  
`console.log(10) = 10`

⑩ `var x = [1, 2, 3, 4, 5, 10];`  
`for (var i = 0; i < 5; i++) {`  
`i = i + 3;`  
`console.log(i);`  
`}`  
3, 7 Respt: 3, 7

i	0
3	4
7	9

⑪ `var x = 15;`  
`console.log(x);`  $\Rightarrow$  15 Respt  
`function awesome() {`  
`var x = 10;`  
`console.log(x);`  $\Rightarrow$  10  
`}`  
`console.log(x);`  $\Rightarrow$  15  
`awesome();`  $\Rightarrow$  10  
`console.log(x);`  $\Rightarrow$  15  
Respt

⑫ `for (var i = 0; i < 15; i += 2) {`  
`console.log(i);`  
`}`

i	0
2	2
4	4
6	6
8	8
10	10
12	12
14	14

Respt: 0, 2, 4, 6, 8, 10, 12, 14

`for (var i = 0; i < 3; i++) {`  
`for (var j = 0; j < 2; j++)`  
`console.log(i * j);`  
`}`  
`i = 0  $\Rightarrow$  (0 * 0) (0 * 1)`  
Respt: 0, 0, 0, 1, 0, 2

j	0
1	1
2	2

⑬ `function looping(x, y) {`  
`for (var i = 0; i < x; i++) {`  
`for (var j = 0; j < y; j++)`  
`console.log(i * j);`  
`}`  
`}`  
`z = looping(3, 3);`  
`console.log(z);`  
Respt: 0, 0, 0, 0, 1, 2, 0, 2, 4  
`z = UNDEFINED`

i	0	1	2	2	3
j	0	1	2	3	0



15) function looping(x,y){  
 for(var i=0; i<<sup>(5)</sup>x; i++){  
 for(var j=0; j<<sup>(5)</sup>y; j++){  
 console.log(i\*j);  
 }  
 }  
 return x\*y;       $\Rightarrow 15$

looping(x,y) = (3,5)

i = 0 > 1 > 2 > 3

j = 0 1 2 3 4 5 / 0 1 2 3 4 5 / 0 1 2 3 4 5

0, 0, 0, 0, 0, 0, 1, 2, 3, 4, 0, 2  
 4, 6, 8

} z = looping(3,5);  $\Rightarrow 15$

console.log(z);  $\Rightarrow$  console.log(15)  $\Rightarrow 15$  / Resp /

16) function PrintUpto(x){

CODE

PrintUpto(1000);  $\Rightarrow$  imprimir todos los enteros del 1 al 1000

y = PrintUpto(-10);  $\Rightarrow$  imprimir false

console.log(y);  $\Rightarrow$  imprimir false

Resp:

```
for (let i=1; i ≤ x; i++){
  console.log(i);
}
```

```
if (x < 0){
  console.log("Número negativo");
  return false;
}
```

17) function printSum(x) { Respt:

var sum = 0;

code

return sum

} y = printSum(255)  
console.log(y)

for(let i=0; i<=x; i++){  
console.log("número:" + i);

sum = sum + i;

console.log("suma parcial:" + sum);

} return sum

18) Qué la función entregue la suma de todos los valores en un array dado.

function printSumArray(x) { Respt:

x = [1, 2, 3]

for(var i=0; i<x.length; i++){

su = sum + x[i];



posiciones  
del array

}  
return sum;

} console.log(printSumArray([1, 2, 3]));



CREA UNA FUNCIÓN QUE ENTREGUE EL ELEMENTO MÁS GRANDE (largest element) EN UN ARRAY.

Ej: largestElement([1, 30, 5, 7]) debería dar resultado 30/...

Function largestElement(array) {

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~~return array[0];~~

let numeroMayor = array[0];

for (let i = 0; i < array.length; i++) {

if (numeroMayor < array[i]) {

numeroMayor = array[i];

}

}

return numeroMayor;

} console.log(largestElement([1, 30, 5, 7]));

~~return array[0];~~