

MANUAL DE DIAGRAMA DE FLUJOS Y JAVASCRIPT



APRENDIZ:

ANDRES FELIPE SUAZA BUSTOS

INSTRUCTOR:

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TECNÓLOGO EN ANÁLISIS Y DESARROLLO DE SOFTWARE

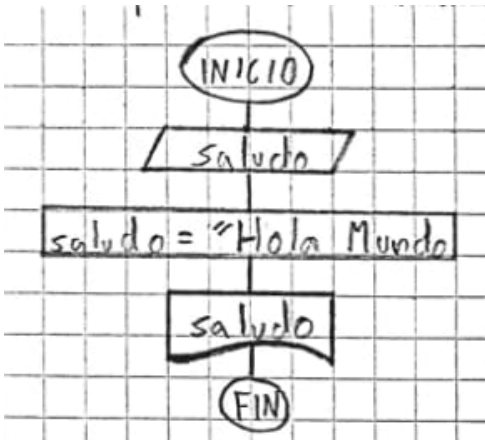
FICHA 2899747

SERVICIO NACIONAL DE APRENDIZAJE-SENA

SEDE INDUSTRIAL

REGIONAL HUILA

2024



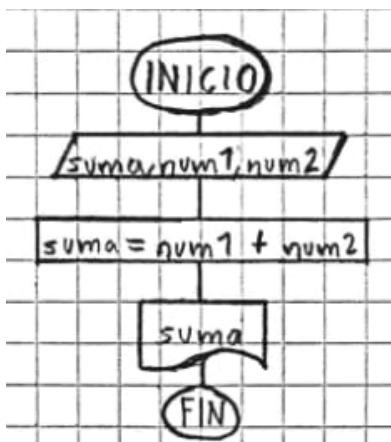
```
let saludar;  
saludar = "Hola Mundo";  
console.log(saludar);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Filter (e.g. text, !exclude)

Hola Mundo

index.html:14



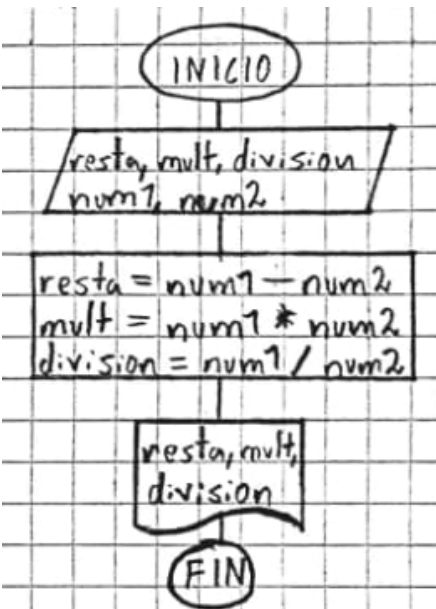
```
let suma, num1, num2;  
num1 = 5, num2 = 2;  
suma = num1 + num2;  
console.log(suma);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Filter (e.g. text, !exclude)

7

index.html:15



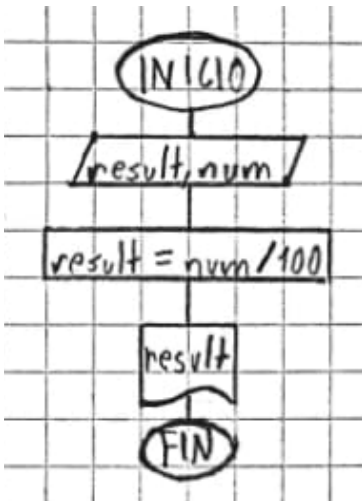
```
let resta, mult, division, num1, num2;  
num1 = 5, num2 = 2;  
resta = num1 - num2;  
mult = num1 * num2;  
division = num1 / num2;  
console.log("Resta: " + resta + "\nMultiplicacion: " + mult +  
"\nDivision: " + division);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Filter (e.g. text, !exclude)

Resta: 3
Multiplicacion: 10
Division: 2.5

index.html:17



```
let num, result;  
num = 55;  
result = num / 100;  
console.log(result);
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

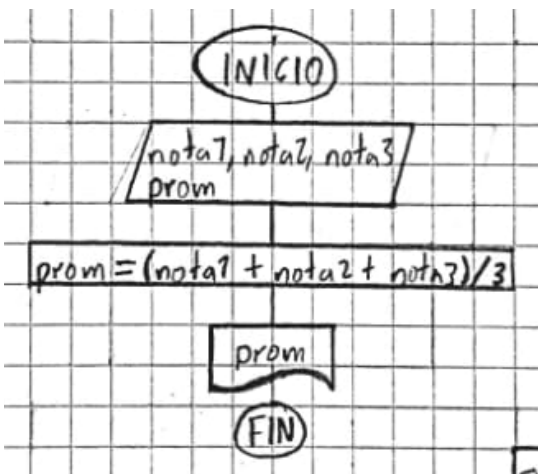
PORTS

Filter (e.g. text, !exclude)

≡ ^ X

0.55

index.html:15



```
let nota1, nota2, nota3, prom;  
nota1 = 3.5, nota2 = 4, nota3 = 2.7;  
prom = (nota1 + nota2 + nota3) / 3;  
console.log(prom);
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

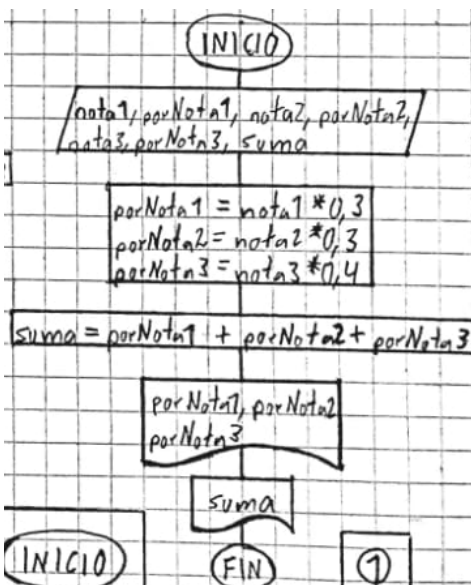
PORTS

Filter (e.g. text, !exclude)

≡ ^ X

3.4

index.html:15



```
let nota1, porNota1, nota2, porNota2, nota3, porNota3, suma;  
nota1 = 2, nota2 = 3.5, nota3 = 4;  
porNota1 = nota1 * 0.3;  
porNota2 = nota2 * 0.3;  
porNota3 = nota3 * 0.4;  
suma = porNota1 + porNota2 + porNota3;  
console.log("Nota 1: " + porNota1 + " Nota 2: " + porNota2 +  
" Nota 3: " + porNota3);  
console.log("Suma: " + suma);
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

Filter (e.g. text, !exclude)

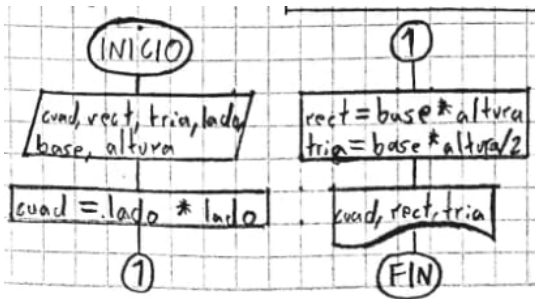
≡ ^ X

Nota 1: 0.6 Nota 2: 1.05 Nota 3: 1.6

index.html:17

Suma: 3.25

index.html:19



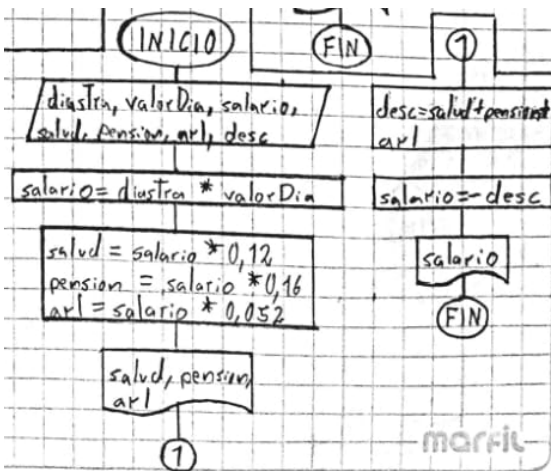
```
let cuad, rect, tria, lado, base, altura;
lado = 5, base = 10, altura = 15;
cuad = lado * lado;
rect = base * altura;
tria = base * altura / 2;
console.log("Cuadrado: " + cuad + '\nRectangulo: ' + rect + '\nTriangulo: ' + tria);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Cuadrado: 25
Rectangulo: 150
Triangulo: 75

Filter (e.g. text, !exclude)

[index.html:17](#)



```
let salario, diasTra, valorDia, salud, pension, arl, desc;
diasTra = 30, valorDia = 10000;
salario = diasTra * valorDia;
salud = salario * 0.12;
pension = salario * 0.16;
arl = salario * 0.052;
console.log("salud: " + salud + '\nPension: ' + pension + '\narl: ' + arl);
desc = salud + pension + arl;
salario = salario - desc;
console.log('Salario: ' + salario);
```

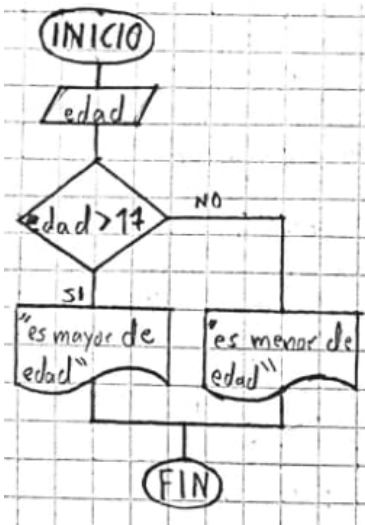
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

salud: 36000
Pension: 48000
arl: 15600
Salario: 200400

Filter (e.g. text, !exclude)

[index.html:18](#)

[index.html:21](#)



```
let edad;
edad = 17;
if (edad > 17) {
  console.log('Mayor de edad');
} else {
  console.log('Menor de edad');
}
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

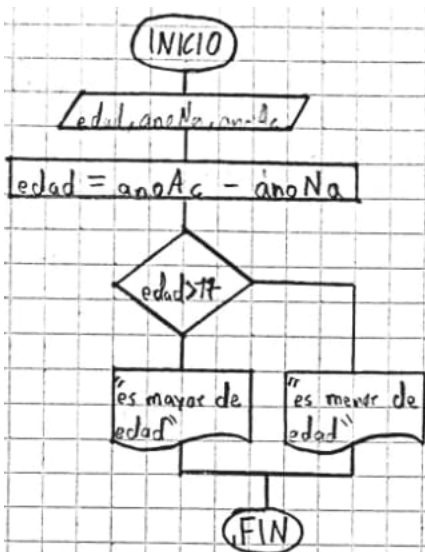
TERMINAL

PORTS

Filter (e.g. text, !exclude)

Menor de edad

index.html:17



```
let edad, anoNa, anoAc;
anoNa = 1995, anoAc = 2024;

edad = anoAc - anoNa;
if (edad > 17) {
  console.log('Mayor de edad');
} else {
  console.log('Menor de edad');
}
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

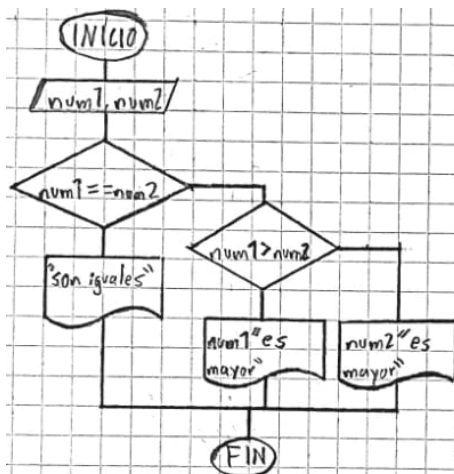
TERMINAL

PORTS

Filter (e.g. text, !exclude)

Mayor de edad

index.html:16



```
let num1, num2;
num1 = 10, num2 = 20;
if (num1 == num2) {
  console.log('Son iguales');
} else if (num1 > num2) {
  console.log(num1 + ' es mayor');
} else {
  console.log(num2 + ' es mayor');
}
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

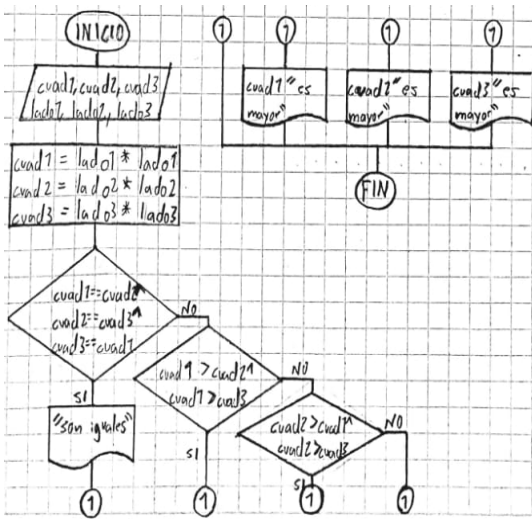
TERMINAL

PORTS

Filter (e.g. text, !exclude)

20 es mayor

index.html:19



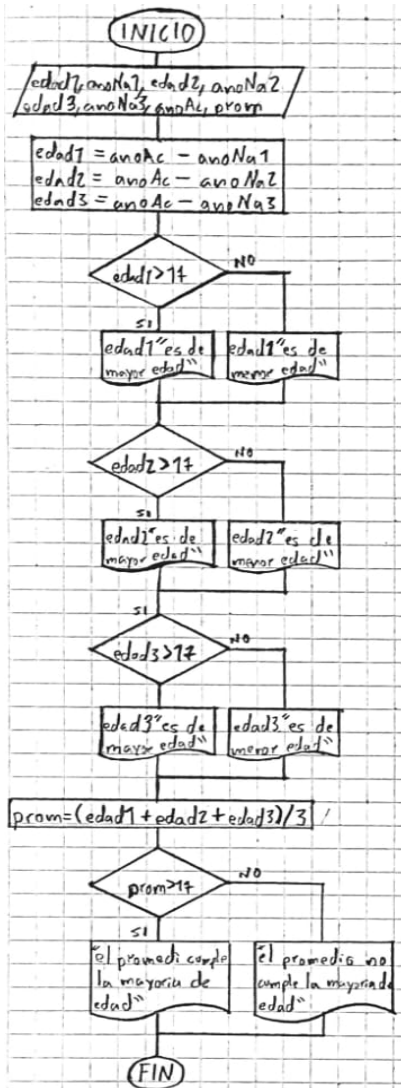
```
let cuad1, cuad2, cuad3, lado1, lado2, lado3;
lado1 = 5, lado2 = 16, lado3 = 15;
cuad1 = lado1 * lado1;
cuad2 = lado2 * lado2;
cuad3 = lado3 * lado3;
if (cuad1 == cuad2 && cuad2 == cuad3 && cuad3 == cuad1) {
    console.log('Son iguales');
} else if (cuad1 > cuad2 && cuad1 > cuad3) {
    console.log('El cuadrado 1 es mayor');
} else if (cuad2 > cuad1 && cuad2 > cuad3) {
    console.log('El cuadrado 2 es mayor');
} else {
    console.log('El cuadrado 3 es mayor');
}
```

PROBLEMS OUTPUT **DEBUG CONSOLE** TERMINAL PORTS

El cuadrado 2 es mayor

Filter (e.g. text, lexclude)

[index.html:22](#)



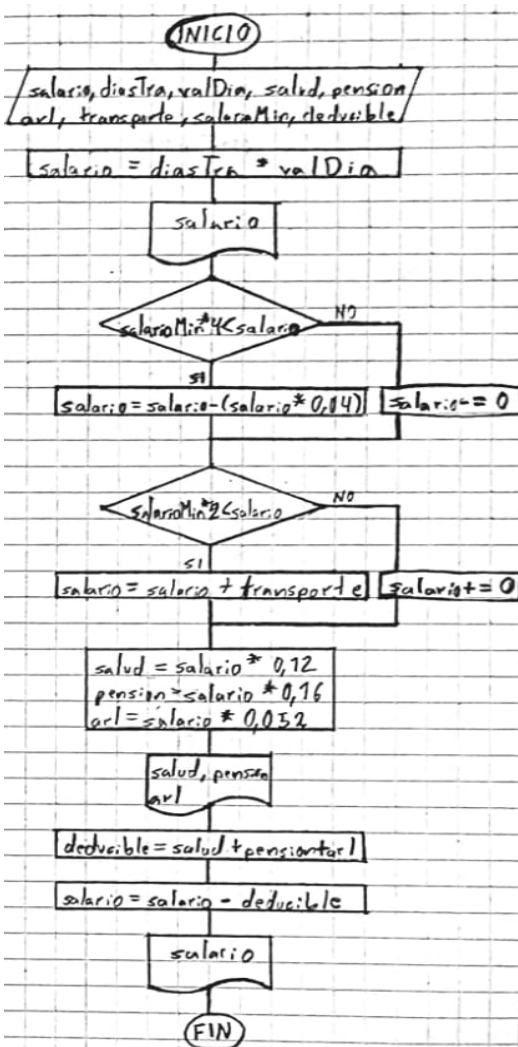
```
let edad1, edad2, edad3, anoNa1, anoNa2, anoNa3, anoAc, prom;
anoNa1 = 1990, anoNa2 = 2008, anoNa3 = 2007, anoAc = 2024;
edad1 = anoAc - anoNa1;
edad2 = anoAc - anoNa2;
edad3 = anoAc - anoNa3;
if (edad1 > 17) {
    console.log('La persona 1 es mayor de edad');
} else {
    console.log('La persona 1 es menor de edad');
}
if (edad2 > 17) {
    console.log('La persona 2 es mayor de edad');
} else {
    console.log('La persona 2 es menor de edad');
}
if (edad3 > 17) {
    console.log('La persona 3 es mayor de edad');
} else {
    console.log('La persona 3 es menor de edad');
}
prom = (edad1 + edad2 + edad3) / 3;
if (prom > 17) {
    console.log('El promedio cumple con la mayoria de edad');
} else {
    console.log('El promedio no cumple con la mayoria de edad');
}
```

PROBLEMS OUTPUT **DEBUG CONSOLE** TERMINAL PORTS

La persona 1 es mayor de edad
La persona 2 es menor de edad
La persona 3 es menor de edad
El promedio cumple con la mayoria de edad

Filter (e.g. text, lexclude)

[index.html:21](#)
[index.html:29](#)
[index.html:35](#)
[index.html:41](#)



```
let salario, diasTra, valDia, salud, pension, ar1,
transporte, salarioMin, deducible;
diasTra = 30, valDia = 100000, salarioMin = 1000000,
transporte = 20000;
salario = diasTra * valDia;
console.log(salario);
if (salario > salarioMin * 4) {
    salario = salario - (salario * 0.04);
} else {
    salario -= 0;
}
if (salario > salarioMin * 2) {
    salario = salario + transporte;
} else {
    salario += 0;
}
salud = salario * 0.12;
pension = salario * 0.16;
ar1 = salario * 0.052;
console.log(salud, pension, ar1);
deducible = salud + pension + ar1;
salario = salario - deducible;
console.log(salario);
```

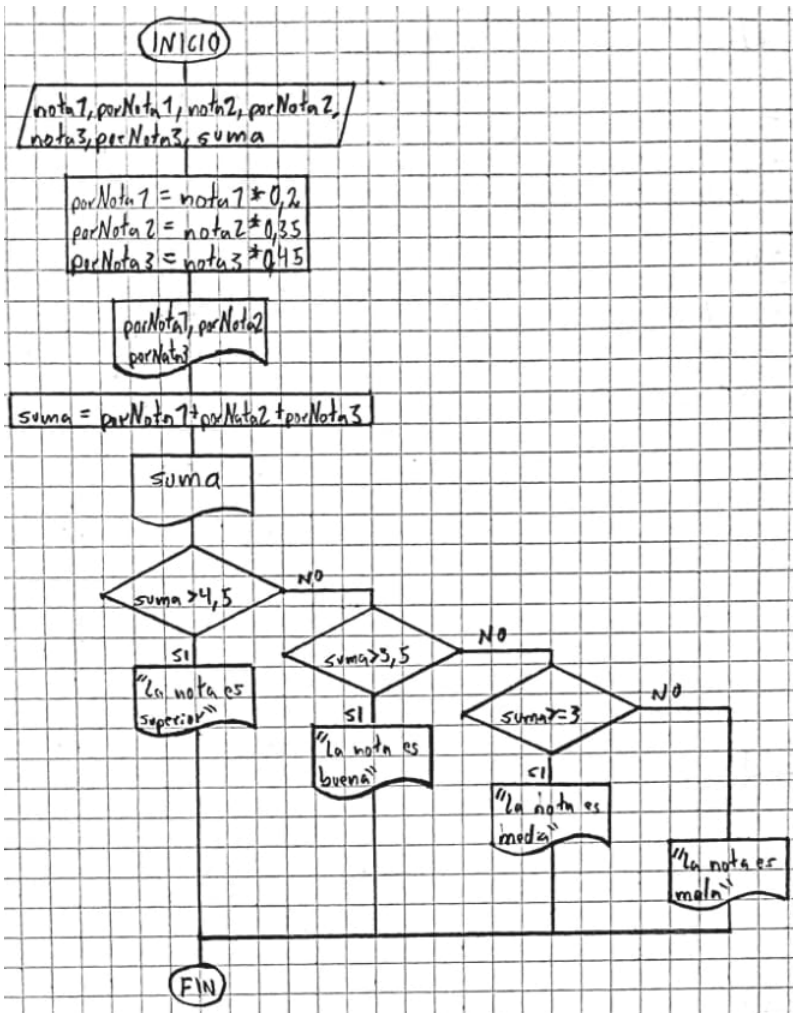
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Filter (e.g. text, !exclude)

≡ ^ X

3000000
362400 483200 157040
2017360

[index.html:15](#)
[index.html:29](#)
[index.html:32](#)



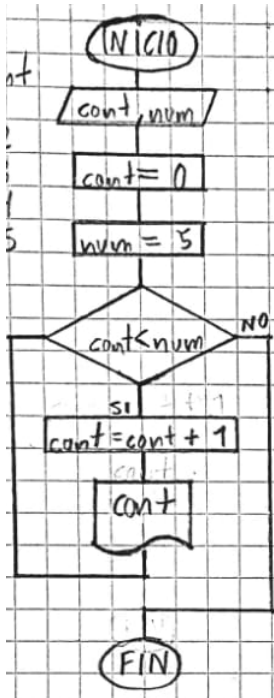
```
let nota1, porNota1, nota2, porNota2,
    nota3, porNota3, suma;
nota1 = 2.5, nota2 = 4.5, nota3 = 5.0;
porNota1 = nota1 * 0.2;
porNota2 = nota2 * 0.35;
porNota3 = nota3 * 0.45;
console.log(porNota1, porNota2,
porNota3);
suma = porNota1 + porNota2 + porNota3;
console.log(suma);
if (suma > 4.5) {
    console.log('La nota es superior');
} else if (suma > 3.5) {
    console.log('La nota es buena');
} else if (suma >= 3) {
    console.log('La nota es media');
} else {
    console.log('La nota es mala');
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

0.5 1.575 2.25
4.325
La nota es buena

Filter (e.g. text, !exclude)

index.html:17
index.html:19
index.html:23



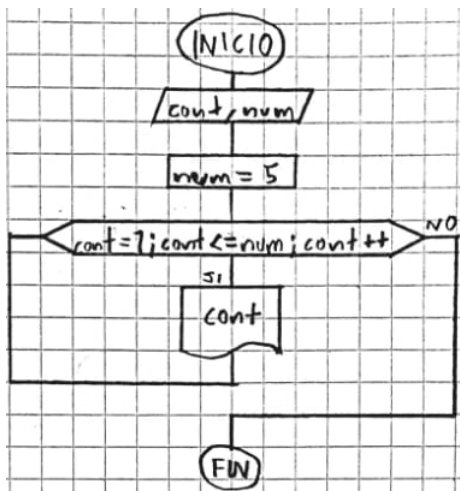
```
let cont, num;
cont = 0;
num = 5;
while (cont < num) {
  cont = cont + 1;
  console.log(cont);
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Filter (e.g. text, !exclude)

1
2
3
4
5

index.html:17
index.html:17
index.html:17
index.html:17
index.html:17



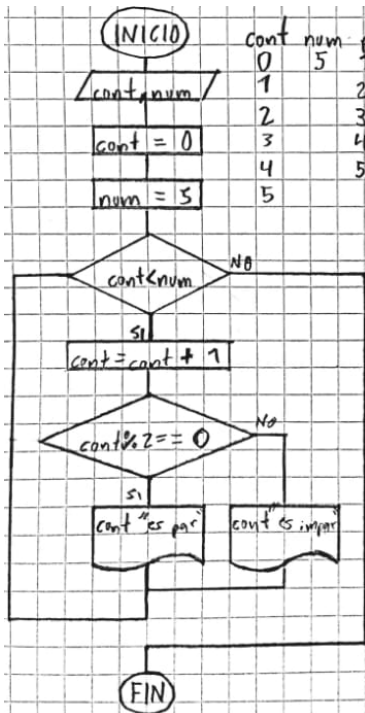
```
let num;
num = 5;
for (let cont = 1; cont <= num; cont++) {
  console.log(cont);
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Filter (e.g. text, !exclude)

1
2
3
4
5

index.html:15
index.html:15
index.html:15
index.html:15
index.html:15



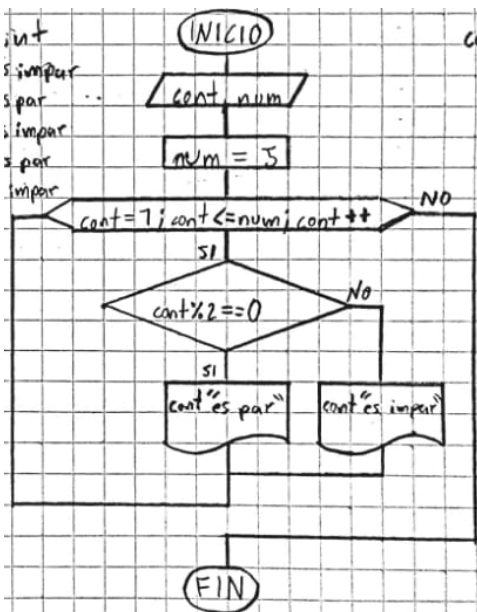
```
let cont, num;
cont = 0;
num = 5;
while (cont < num) {
  cont = cont + 1;
  if (cont % 2 == 0) {
    console.log(cont + ' es par');
  } else {
    console.log(cont + ' es impar');
  }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

1 es impar
2 es par
3 es impar
4 es par
5 es impar

Filter (e.g. text, !exclude)

index.html:20
index.html:18
index.html:20
index.html:18
index.html:20



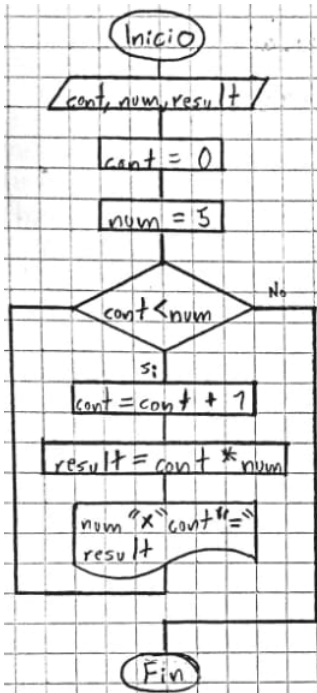
```
let num;
num = 5;
for (let cont = 1; cont <= num; cont++) {
  if (cont % 2 == 0) {
    console.log(cont + ' es par');
  } else {
    console.log(cont + ' es impar');
  }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

1 es impar
2 es par
3 es impar
4 es par
5 es impar

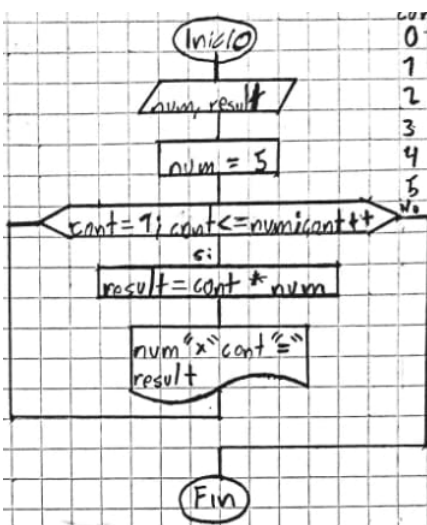
Filter (e.g. text, !exclude)

index.html:20
index.html:18
index.html:20
index.html:18
index.html:20



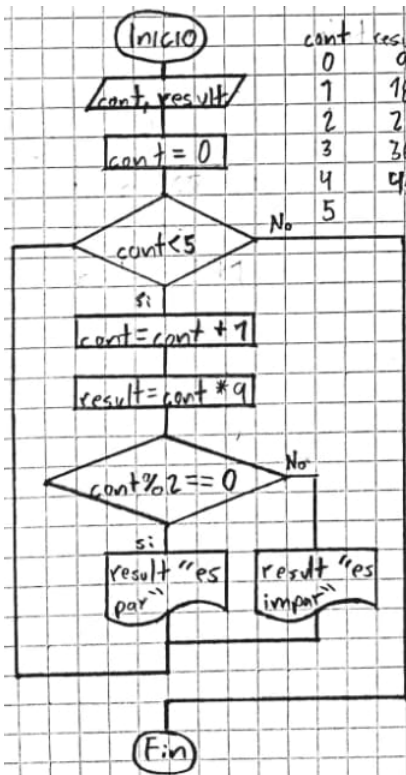
```
let cont, num, result;
cont = 0;
num = 5;
while (cont < num) {
    cont = cont + 1;
    result = num * cont;
    console.log(num + ' x ' + cont + ' = ' + result);
}
```

PROBLEMS	OUTPUT	DEBUG CONSOLE	TERMINAL	PORTS
	5 x 1 = 5			index.html:18
	5 x 2 = 10			index.html:18
	5 x 3 = 15			index.html:18
	5 x 4 = 20			index.html:18
	5 x 5 = 25			index.html:18



```
let num, result;
num = 5;
for (let cont = 1; cont <= num; cont++) {
    result = num * cont;
    console.log(num + ' x ' + cont + ' = ' + result);
}
```

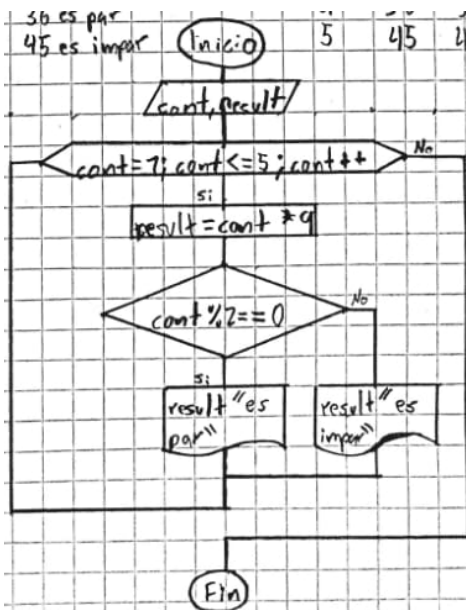
PROBLEMS	OUTPUT	DEBUG CONSOLE	TERMINAL	PORTS
	5 x 1 = 5			index.html:16
	5 x 2 = 10			index.html:16
	5 x 3 = 15			index.html:16
	5 x 4 = 20			index.html:16
	5 x 5 = 25			index.html:16



```
let cont, result;
cont = 0;
while (cont < 5) {
    cont = cont + 1;
    result = cont * 9;
    if (result % 2 == 0) {
        console.log(result + ' es par');
    } else {
        console.log(result + ' es impar');
    }
}
```

DEBUG CONSOLE OUTPUT:

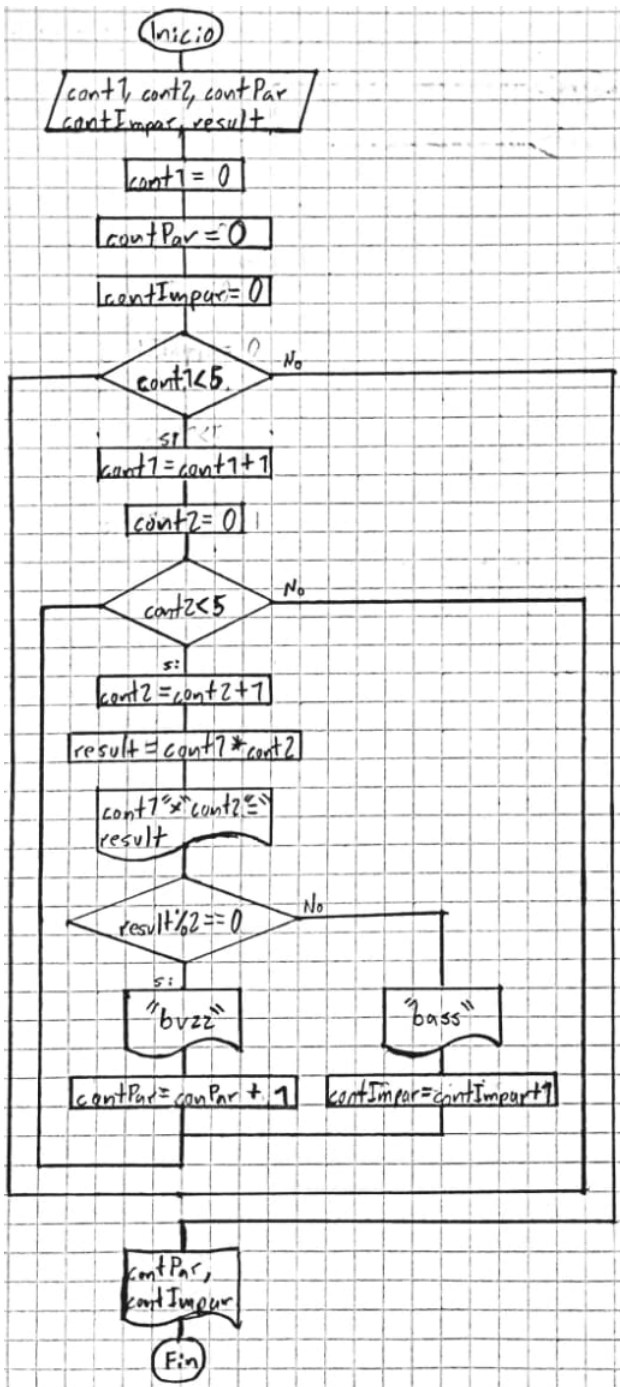
```
9 es impar
18 es par
27 es impar
36 es par
45 es impar
```



```
let result;
for (let cont = 1; cont <= 5; cont++) {
    result = cont * 9;
    if (result % 2 == 0) {
        console.log(result + ' es par');
    } else {
        console.log(result + ' es impar');
    }
}
```

DEBUG CONSOLE OUTPUT:

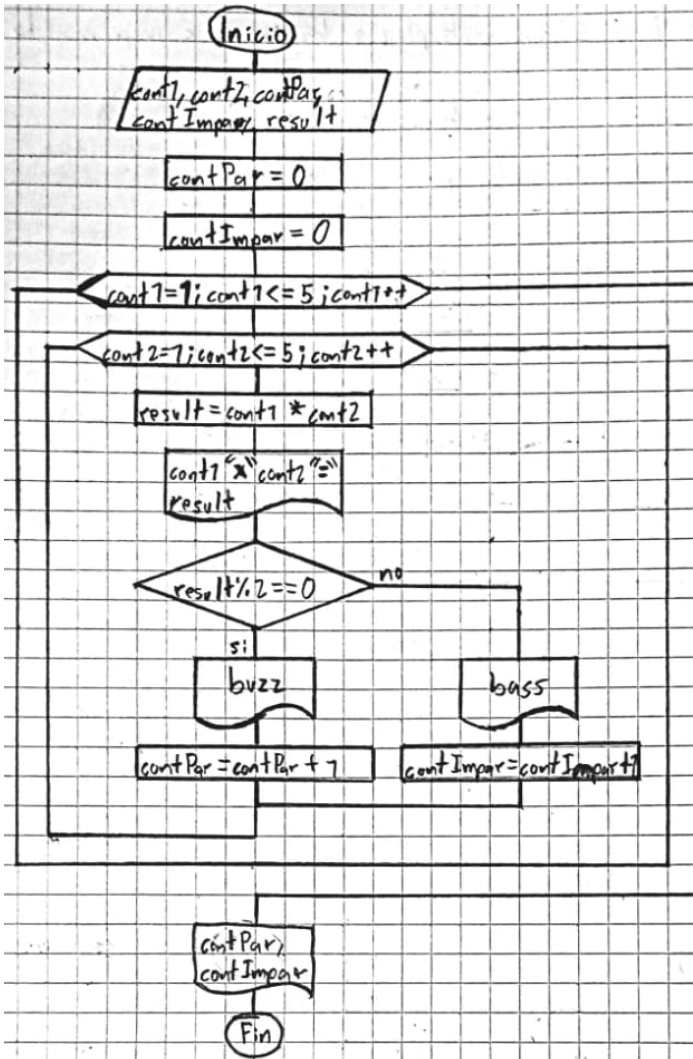
```
9 es impar
18 es par
27 es impar
36 es par
45 es impar
```



```
let cont1, cont2, contPar, contImpar, result;
cont1 = 0;
contPar = 0;
contImpar = 0;
while (cont1 < 5) {
    cont1 = cont1 + 1;
    cont2 = 0;
    while (cont2 < 5) {
        cont2 = cont2 + 1;
        result = cont1 * cont2;
        console.log(cont1 + " x " + cont2 + " = " + result);
        if (result % 2 == 0) {
            console.log("buzz");
            contPar = contPar + 1;
        } else {
            console.log("bass");
            contImpar = contImpar + 1;
        }
    }
    console.log("par: " + contPar);
    console.log("impar: " + contImpar);
}
```

The screenshot shows a code editor with the JavaScript code from the previous block. The output in the console is as follows:

```
1 x 1 = 1
bass
1 x 2 = 2
buzz
2 x 1 = 2
bass
2 x 2 = 4
buzz
1 x 3 = 3
bass
1 x 4 = 4
buzz
1 x 5 = 5
bass
2 x 3 = 6
buzz
2 x 4 = 8
buzz
2 x 5 = 10
buzz
3 x 1 = 3
bass
3 x 2 = 6
buzz
3 x 3 = 9
bass
3 x 4 = 12
buzz
3 x 5 = 15
bass
4 x 1 = 4
buzz
4 x 2 = 8
buzz
4 x 3 = 12
buzz
4 x 4 = 16
buzz
4 x 5 = 20
bass
5 x 1 = 5
bass
5 x 2 = 10
buzz
5 x 3 = 15
bass
5 x 4 = 20
buzz
5 x 5 = 25
bass
par: 10
impar: 9
```



```

let contPar, contImpar, result;

contPar = 0;
contImpar = 0;
for (let cont1 = 1; cont1 <= 5; cont1++) {
    for (cont2 = 1; cont2 <= 5; cont2++) {
        result = cont1 * cont2;
        console.log(cont1 + " x " + cont2 + " = " + result);
        if (result % 2 == 0) {
            console.log("buzz");
            contPar = contPar + 1;
        } else {
            console.log("bass");
            contImpar = contImpar + 1;
        }
    }
}
console.log("par: " + contPar);
console.log("impar: " + contImpar);

```

INDEX	VALUE	STATUS	INDEX	VALUE
1	1 x 1 = 1	True	16	4 x 4 = 16
2	1 x 2 = 2	True	17	4 x 5 = 20
3	1 x 3 = 3	True	18	5 x 1 = 5
4	1 x 4 = 4	True	19	5 x 2 = 10
5	1 x 5 = 5	True	20	5 x 3 = 15
6	2 x 1 = 2	True	21	5 x 4 = 20
7	2 x 2 = 4	True	22	5 x 5 = 25
8	2 x 3 = 6	True	23	par: 10
9	2 x 4 = 8	True	24	impar: 9
10	2 x 5 = 10	True		
11	3 x 1 = 3	True		
12	3 x 2 = 6	True		
13	3 x 3 = 9	True		
14	3 x 4 = 12	True		
15	3 x 5 = 15	True		
16	4 x 1 = 4	True		
17	4 x 2 = 8	True		
18	4 x 3 = 12	True		
19	4 x 4 = 16	True		
20	4 x 5 = 20	True		
21	5 x 1 = 5	True		
22	5 x 2 = 10	True		
23	5 x 3 = 15	True		
24	5 x 4 = 20	True		
25	5 x 5 = 25	True		
26	par: 10	True		
27	impar: 9	True		