

Exercícios - Aula 5 - Loops

Vamos exercitar nosso aprendizado sobre loops!

- 1) Faça um loop que imprima na tela uma contagem de 0 a 10

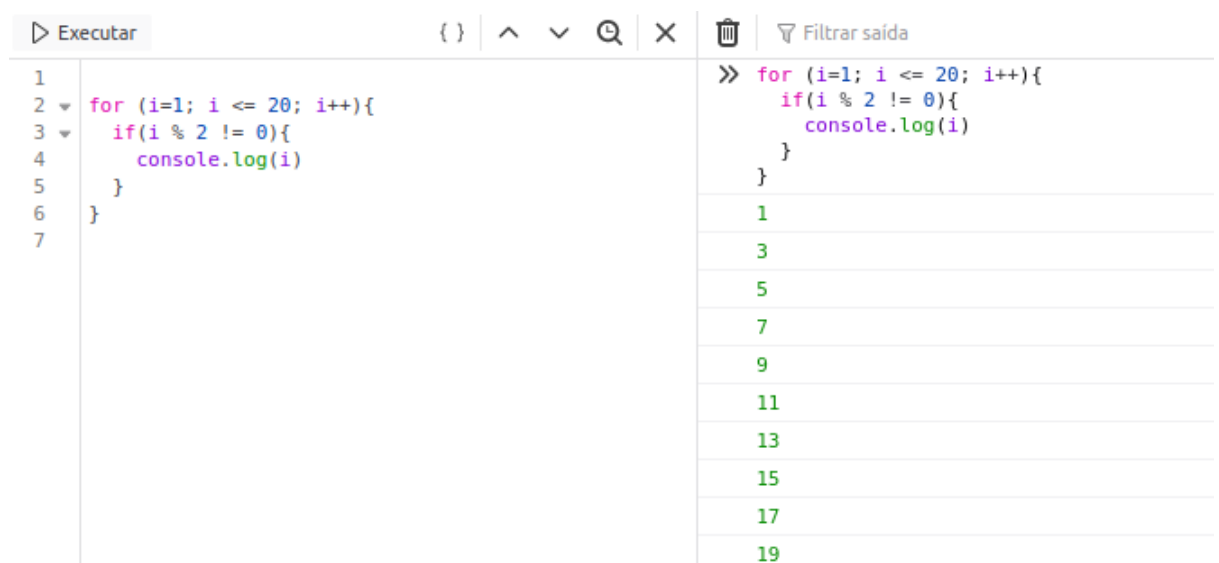


The screenshot shows a web browser's developer console with the 'Console' tab selected. The code in the editor is a for loop that iterates from 0 to 10, logging each value to the console. The console output shows the numbers 0 through 10, each on a new line, in green text. The interface includes tabs for 'Erros', 'Warnings', 'Logs', 'Info', 'Debug', 'CSS', and 'XHR'. The 'Logs' tab is active, showing the sequence of log messages.

```
1  
2  
3 for (var i = 0; i <= 10; i++){  
4   console.log(i)  
5 }
```

>> for (var i = 0; i <= 10; i++){
 console.log(i)
}
0
1
2
3
4
5
6
7
8
9
10
← undefined

- 2) Faça um loop que imprima somente os número ímpares de 1 a 20



The screenshot shows a web browser's developer console with the 'Console' tab selected. The code in the editor is a for loop that iterates from 1 to 20, with an if statement checking if the current value is odd (i % 2 !== 0). If it is, the value is logged to the console. The console output shows the odd numbers 1, 3, 5, 7, 9, 11, 13, 15, 17, and 19, each on a new line, in green text. The interface includes tabs for 'Erros', 'Warnings', 'Logs', 'Info', 'Debug', 'CSS', and 'XHR'. The 'Logs' tab is active, showing the sequence of log messages.

```
1  
2 for (i=1; i <= 20; i++){  
3   if(i % 2 !== 0){  
4     console.log(i)  
5   }  
6 }  
7
```

>> for (i=1; i <= 20; i++){
 if(i % 2 !== 0){
 console.log(i)
 }
}
1
3
5
7
9
11
13
15
17
19

3) Faça um loop que imprima a multiplicação por 2 dos números de 1 a 5

The screenshot shows a code editor with a JavaScript snippet and its output. The code is a for loop that iterates from 1 to 5, multiplying each number by 2 and logging the result to the console. The output shows the sequence of results: 2, 4, 6, 8, 10, followed by an undefined value at the end of the loop.

```
1  
2  
3 for (var i = 1; i <= 5; i++){  
4   console.log(i * 2)  
5 }
```

Erros Warnings Logs Info Debug CSS XH

```
>> for (var i = 1; i <= 5; i++){  
    console.log(i * 2)  
  }  
2  
4  
6  
8  
10  
← undefined
```

4) Faça um loop que imprima os números em contagem regressiva de 20 a 0

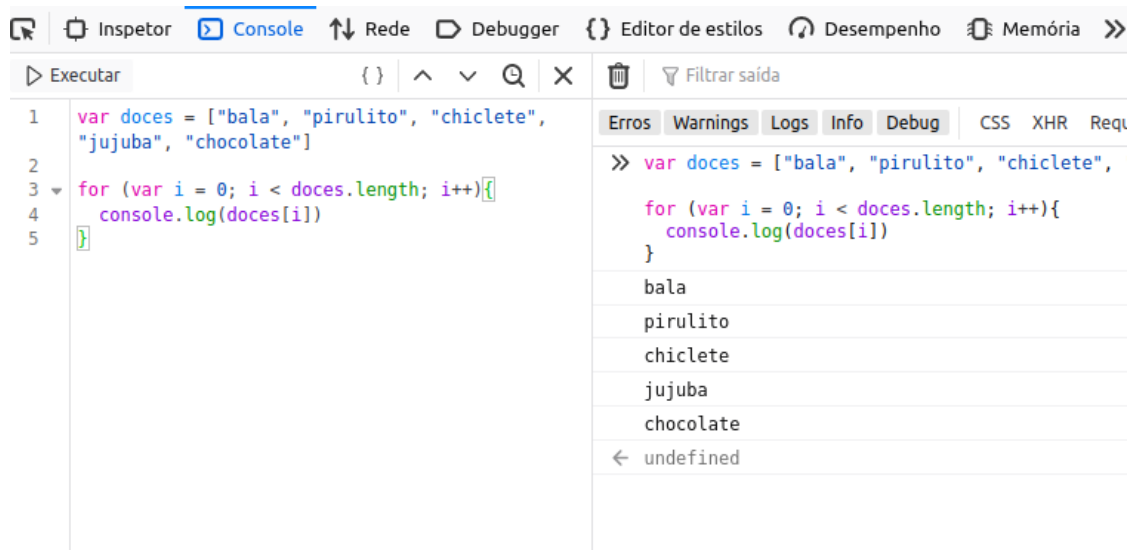
The screenshot shows a code editor with a JavaScript snippet and its output. The code is a for loop that starts at 20 and decrements by 1 until it reaches 0, logging each number to the console. The output shows the sequence of numbers from 20 down to 0, followed by an undefined value at the end of the loop.

```
1  
2  
3 for (var i = 20; i >= 0; i--){  
4   console.log(i)  
5 }
```

Erros Warnings Logs Info Debug CSS XH

```
console.log(i)  
}  
20  
19  
18  
17  
16  
15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
0  
← undefined
```

- 5) Faça um loop que imprima todos os itens do array doces = ["bala", "pirulito", "chiclete", "jujuba", "chocolate"]



```
1 var doces = ["bala", "pirulito", "chiclete",  
2 "jujuba", "chocolate"]  
3 for (var i = 0; i < doces.length; i++){  
4   console.log(doces[i])  
5 }
```

The console output shows the following sequence:

- bala
- pirulito
- chiclete
- jujuba
- chocolate
- ← undefined

- 6) Faça um loop que procure no array doces a palavra pirulito e troque por doce de leite

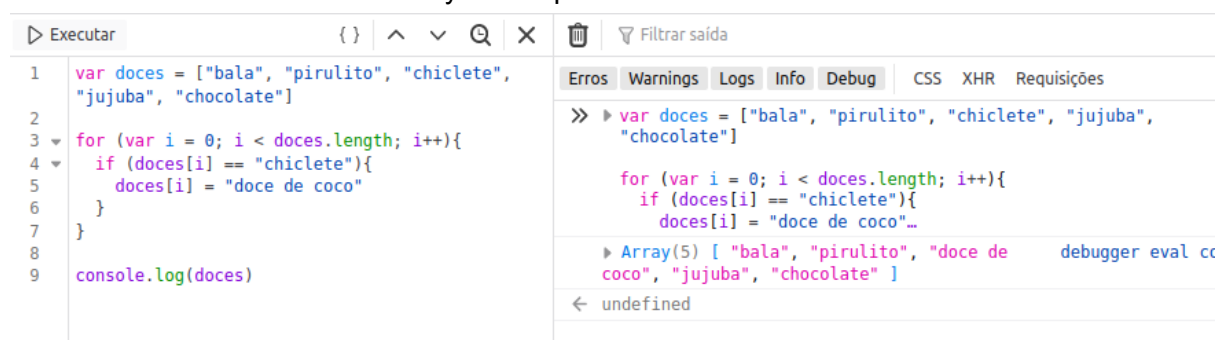


```
1 var doces = ['bala', 'pirulito', 'chiclete', 'jujuba', 'chocolate']  
2 console.log("Antes de mudar: ", doces)  
3 for (i=0; i < doces.length; i++){  
4   if(doces[i] == "pirulito"){  
5     doces[i] = "doce de leite"  
6   }  
7 }  
8  
9 console.log("Depois de mudar: ", doces)  
10
```

The console output shows the following sequence:

- Antes de mudar: Array(5) ["bala", "pirulito", "chiclete", "jujuba", "chocolate"]
- Depois de mudar: Array(5) ["bala", "doce de leite", "chiclete", "jujuba", "chocolate"]
- ← undefined

- 7) Altere o conteúdo chiclete do array doces para doce de coco

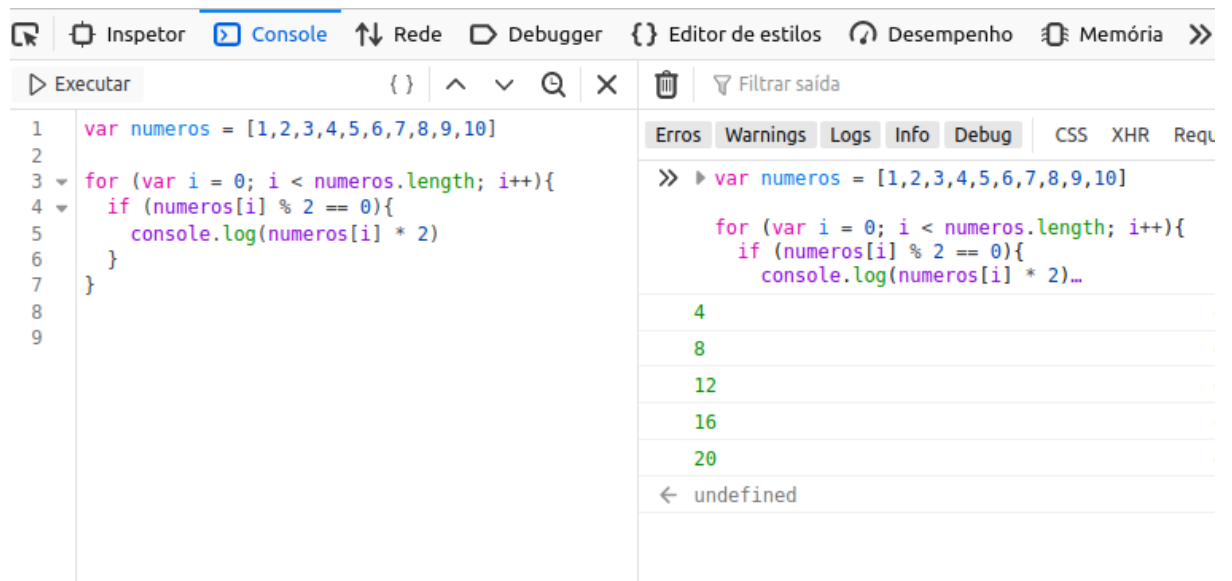


```
1 var doces = ["bala", "pirulito", "chiclete",  
2 "jujuba", "chocolate"]  
3 for (var i = 0; i < doces.length; i++){  
4   if (doces[i] == "chiclete"){  
5     doces[i] = "doce de coco"  
6   }  
7 }  
8  
9 console.log(doces)
```

The console output shows the following sequence:

- Array(5) ["bala", "pirulito", "doce de coco", "jujuba", "chocolate"]
- ← undefined

- 8) Faça um loop que multiplique por 2 somente os números pares do array `numeros = [1,2,3,4,5,6,7,8,9,10]`



The screenshot shows a web browser's developer console with the 'Console' tab selected. On the left, the code being executed is as follows:

```
1 var numeros = [1,2,3,4,5,6,7,8,9,10]
2
3 for (var i = 0; i < numeros.length; i++){
4   if (numeros[i] % 2 == 0){
5     console.log(numeros[i] * 2)
6   }
7 }
8
9
```

On the right, the console output shows the results of the loop:

```
>> ▶ var numeros = [1,2,3,4,5,6,7,8,9,10]
    for (var i = 0; i < numeros.length; i++){
      if (numeros[i] % 2 == 0){
        console.log(numeros[i] * 2)...
```

The output values are 4, 8, 12, 16, and 20, each on a new line. The final line of the output is '← undefined'.

- 9) Faça um loop que imprima somente os **nomes** dos clientes no array de objetos `listaClientes = [`

```
{
  nome: "Larissa",
  cidade: "Sumaré"
},
{
  nome: "Hugo",
  cidade: "São vicente"
},
{
  nome: "André",
  cidade: "Osasco"
}
```

`]`

The screenshot shows a web browser's developer console with the following code in the left pane:

```
1 var listaClientes = [{
2   nome: "Larissa",
3   cidade: "Sumaré"
4 },
5 {
6   nome: "Hugo",
7   cidade: "São vicente"
8 },
9 {
10  nome: "André",
11  cidade: "Osasco"
12 }
13 ]
14
15
16
17 for (var i = 0; i < listaClientes.length; i++){
18   console.log(listaClientes[i].nome)
19 }
```

The right pane shows the 'Logs' tab with the following output:

```
>> ▶ var listaClientes = [{
  nome: "Larissa",
  cidade: "Sumaré"
}, ...
Larissa
Hugo
André
← undefined
```

10) Faça um loop que imprima somente as cidades dos clientes da variável listaClientes

The screenshot shows a web browser's developer console with the following code in the left pane:

```
1 var listaClientes = [{
2   nome: "Larissa",
3   cidade: "Sumaré"
4 },
5 {
6   nome: "Hugo",
7   cidade: "São vicente"
8 },
9 {
10  nome: "André",
11  cidade: "Osasco"
12 }
13 ]
14
15
16
17 for (var i = 0; i < listaClientes.length; i++){
18   console.log(listaClientes[i].cidade)
19 }
```

The right pane shows the 'Logs' tab with the following output:

```
>> ▶ var listaClientes = [{
  nome: "Larissa",
  cidade: "Sumaré"
}, ...
Sumaré
São vicente
Osasco
← undefined
```