

Part 2 : Find the culprits and nail them — debugging JavaScript loops

Please refer the below link for debugging JS tasks:

<https://medium.com/@reach2arunprakash/www-guvi-io-zen-4fa483a7d359>

Question#1: Write a code to print the numbers in the array

Output: 1234567891011

Solution here: Changed `i=0;` and `i++`

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var new_string = "";

for (var i =0 ; i <11; i++) {
  new_string += numsArr[i]
}
console.log(new_string);
```

Question#2 : Write a code to print the numbers in the array

Output: 1,2,3,4,5,6,7,8,9,10,11

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var new_string = " ";

for (var i = 0; i < 11; i++) {
  new_string += numsArr[i]+","; //Add “,” here as a solution and i=0;
}
console.log(new_string);
```

Question #3 : Write a code to print from last to first with spaces (Make sure there is no space after the last element 1)

Output: 11 10 9 8 7 6 5 4 3 2 1

```
var new_string = "";

for (var i = 11; i > 0; i -- )
{
    new_string += [i] + " ";
}
console.log(new_string.trim());
```

Question#4 : Write a code to replace the array value — If the number is even, replace it with 'even'.

Output: [1, "even", 3, "even", 5, "even", 7, "even", 9, "even", ...]

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
for (var i = 0; i <=10; i++) {
    if(numsArr[i] %2 ===0 )
    {
        numsArr[i] = "even";
    }
}
console.log(numsArr);
```

Question#5 : Write a code to replace the array value — if the index is even, replace it with 'even'.

Output: ["even", 2, "even", 4, "even", 6, "even", 8, "even", 10, ...]

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
for (var i = 0; i <=10; i++)
{
    if(numsArr.indexOf(numsArr[i]) %2 === 0 )
    {
        numsArr[i] = "even";
    }
}
console.log(numsArr);
```

Question #6 Write a code to add all the numbers in the array

Output: 66

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  
  
console.log(numsArr.reduce((a,b)=>a+b));
```

Question #7 : Write a code to add the even numbers only

Output: 30

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  
  
console.log(numsArr.filter((ele)=>ele%2===0).reduce((a,v)=>a+v));
```

Question #8 : Write a code to add the even numbers and subtract the odd numbers

Output: 94

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  
var sum=100;  
  
numsArr.filter((ele)=> {  
    if (ele%2!==0) {  
        sum=sum-ele;  
    } else {  
        sum=sum+ele;  
    }  
});  
console.log(sum);
```

Question #9 : Write a code to print inner arrays

Output:

Array(5) [1, 2, 3, 4, 5]

Array(6) [6, 7, 8, 9, 10, 11]

Solution : Added two arrays with comma and removed unwanted semicolon

```
var numsArr = [[1, 2, 3, 4, 5],[6, 7, 8, 9, 10, 11]];
for (var i = 0; i < numsArr.length; i++)
{
    let res = numsArr[i].length;
    console.log("Array",res,numsArr[i]);
}
```

Question #10 : Write a code to print elements in the inner arrays

Output: 1234567891011

Solution : Changed j++

```
var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];
var str_all="";
for (var i = 0; i < numsArr.length; i++) {
    var inner_array = numsArr[i];
    for(var j = 0 ; j < inner_array.length;j++ )
        str_all +=inner_array[j]
    }
console.log(str_all);
```

Question #11 : Write a code to replace the array value — If the index is even, replace it with ‘even’.

Output: [[“even”, 2, “even”, 4, “even”], [6, “even”, 8, “even”, 10, ...]]

```
var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];

for(var i = 0; i < numsArr.length; i++)
{
    for(var j = 0 ; j < numsArr[i].length;j++ )
```

```

{
    if(numsArr[i].indexOf(numsArr[i][j])%2 ===0)
    {
        numsArr[i][j] = "even";
    }

} }
console.log(numsArr);

```

Question#12 : Write a code to print elements in the inner arrays in reverse

Output: 11 10 9 8 7 6 5 4 3 2 1

```

var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];
var str_all="";
for (var i = numsArr.length-1; i >=0; i--)
{
    var inner_array = numsArr[i];
    for(var j = inner_array.length-1; j >= 0 ;j-- )
        str_all +=inner_array[j] + " ";
}
console.log(str_all.trim());

```

Question#13 : Write a code to add elements in the inner arrays based on odd or even values

Output:

36

30

```

var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];
var sum_odd=0;
var sum_even=0;
for (var i = 0; i < numsArr.length; i++)
{
    var inner_array = numsArr[i];
    for(var j = 0 ; j < inner_array.length;j++)
    {
        if(inner_array[j]%2!=0)

```

```
{
    sum_odd += inner_array[j];
}
else
{
    sum_even += inner_array[j];
} } }
console.log(sum_odd);
console.log(sum_even);
```