GUVI: Zen Class — Part 2 : Find the culprits and nail them — debugging javascript loops

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| Question | Answer |
| Write a code to print the numbers in the array  **Output**: 1234567891011  Code:  var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var new\_string = "";  for (var i = 1; i < 11; i--) {  new\_string += numsArr[i]  }  console.log(new\_string); | 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); |
| Output:  1234567891011 |
| Write a code to print the numbers in the array  Output: 1,2,3,4,5,6,7,8,9,10,11  Code:  var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var new\_string = "";    for (var i = 1; i < 11; i++) {  new\_string += numsArr[i] + ,  }  console.log(new\_string); | var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var new\_string = numsArr[0];    for (var i = 1; i < 11; i++) {  new\_string += ',' + numsArr[i]  }  console.log(new\_string); |
| Output:  1,2,3,4,5,6,7,8,9,10,11 |
| 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  Code:  var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var new\_string = "";    for (var i = 11; i > 0; i — ) {  new\_string += numsArr[i] + “ “  }  console.log(new\_string); | var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var new\_string = numsArr[10];    for (var i = 9; i >= 0; i-- ) {  new\_string += " " + numsArr[i]  }  console.log(new\_string); |
| Output  11 10 9 8 7 6 5 4 3 2 1 |
| 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”, … ]  Code:  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] = odd  } } console.log(numsArr); | 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); |
| Output:  [ 1, 'even', 3, 'even', 5, 'even', 7, 'even', 9, 'even', 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, … ]  Code:  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); | var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  for (var i = 0; i <=10; i++) {  if(i % 2 == 0 )  {  numsArr[i] = "even"  }  }  console.log(numsArr); |
| Output:  [ 'even', 2, 'even', 4, 'even', 6, 'even', 8, 'even', 10, 'even' ] |
| Write a code to add all the numbers in the array  Output: 66  Code  var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];for (var i = 0; i <=10; i++) {  var sum;  sum += numsArr[i] } console.log(sum); | var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var sum=0;  for (var i = 0; i <=10; i++) {    sum += numsArr[i]  }  console.log(sum); |
| Output:  66 |
| Write a code to add the even numbers only **Output**: 30  Code:  var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]; var sum=0;for (var i = 0; i <10; i++) {  if(numsArr[i]%2==0);  sum += numsArr[i] } console.log(sum); | var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var sum=0;  for (var i = 0; i <=10; i++) {  if(numsArr[i]%2 == 0)  sum += numsArr[i]    }  console.log(sum); |
| Output:  30 |
| Write a code to add the even numbers and subract the odd numbers **Output**: 94  Code:  var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]; var sum=100;for (var i = 0; i <=10; i++) {  if(numsArr[i]%2!=0);  {  sum += numsArr[i]  }  else  {  sum -= numsArr[i]  } } console.log(sum); | var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var sum=100;  for (var i = 0; i <=10; i++) {  if(numsArr[i]%2==0)  {  sum += numsArr[i]  }  else  {  sum -= numsArr[i]  }  }  console.log(sum); |
| Output:  94 |
| Write a code to print inner arrays **Output**:  Array(5) [ 1, 2, 3, 4, 5 ] Array(6) [ 6, 7, 8, 9, 10, 11 ]  Code:  var numsArr = [[1, 2, 3, 4, 5][ 6, 7, 8, 9, 10, 11]]; for (var i = 0; i < numsArr.length; i++); {  console.log( numsArr[i]) } | var numsArr = [  [1, 2, 3, 4, 5],  [ 6, 7, 8, 9, 10, 11]  ];  for (var i = 0; i <numsArr.length; i++) {  console.log(numsArr[i])  } |
| Output:  [ 1, 2, 3, 4, 5 ]  [ 6, 7, 8, 9, 10, 11 ] |
| Write a code to print elements in the inner arrays **Output**: 1234567891011  Code:  var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]]; var str\_all=0;for (var i = 0; i < numsArr.length; i++) {  var inner\_array = numsArr[i];  for(var j = 0 ; j < inner\_array.length;i++ )  str\_all +=inner\_array[j] } console.log(str\_all); | 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); |
| Output:  1234567891011 |
| 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, …] ]  Code:  var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]]; var str\_all=0;for (var i = 0; i < numsArr.length; i++) {  var inner\_array = numsArr[i];  for(var j = 0 ; j < inner\_array.length;i++ )  if(numsArr[i] %2 == 0 )  {  numsArr[i] = even  } } console.log(numsArr); | var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];  for (var i = 0; i < numsArr.length; i++) {  var inner\_array = numsArr[i];  for(var j = 0 ; j < inner\_array.length;j++ )  if(numsArr[i][j] %2 !== 0 )  {  numsArr[i][j] = "even"  }  }  console.log(numsArr); |
| Output:  [ [ 'even', 2, 'even', 4, 'even' ],  [ 6, 'even', 8, 'even', 10, 'even' ] ] |
| Write a code to print elements in the inner arrays in reverse **Output**: 11 10 9 8 7 6 5 4 3 2 1  Code:  var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]]; var str\_all=0;for (var i = 0; i < numsArr.length; i++) {  var inner\_array = numsArr[i];  for(var j = inner\_array.length; j < 0 ;j-- )  str\_all +=inner\_array[j] } console.log(str\_all); | 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); |
| **Output**:  11 10 9 8 7 6 5 4 3 2 1 |
| Write a code to add elements in the inner arrays based on odd or even values **Output**:  36 30  Code:  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(numsArr[i]%2!=0)  {  sum\_odd += numsArr[i]  }  else  {  sum\_even += numsArr[i]  } } } console.log(sum\_odd); console.log(sum\_even); | **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);** |
| **Output:**  36  30 |