

# JS-A2#1

Task 1	<p>Watch the lesson video carefully twice (at least). Then answer the following</p> <ol style="list-style-type: none"> <li>Do all the questions solved in the video               <ol style="list-style-type: none"> <li>Count even numbers in array</li> <li>Sum of numbers divisible by 5</li> <li>Change each string to uppercase</li> <li>Is there a prime number in array</li> <li>Count strings with b or B</li> <li>Create array of 1 to n</li> <li>Create new array of numbers not divisible by 3</li> <li>Remove Hello from array</li> <li>Insert Angular, React and Node after Javascript</li> </ol> </li> <li>What is an array. Why do we use arrays.</li> <li>Explain push, pop, shift, unshift, splice and concat.</li> </ol>
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Task 2	Given an array, print the sum of the numbers in the array.	
Test Cases	Input	Expected Output
	[1,3,4,5,6]	Sum=19
	[11]	Sum=11
	[-1,2,-3,4,-5,6,-7]	Sum=-4
	[]	Sum=0

Task 3	Given an array, print the sum and count of the multiples of 3 in the array.	
Test Cases	Input	Expected Output
	[3,4,5,12]	3Sum=15, 3Count=2
	[11]	3Sum=0, 3Count=0
	[1,2,3,4,5,6,7,8,9,10]	3Sum=18, 3Count=3
	[]	3Sum=0, 3Count=0

Task 4	Given an array, print the sum of the even and odd numbers in the array.	
Test Cases	Input	Expected Output
	[3,4,5,12]	Even Sum = 16 Odd Sum = 8
	[101]	Even Sum = 0 Odd Sum = 101
	[1,2,3,4,5,6,7,8,9,10]	Even Sum = 30 Odd Sum = 25

Task 5	Given an array, print the count and the numbers greater than 21 in the array.	
Test Cases	Input	Expected Output
	[5,18,26,30,40,6]	Count = 3 Values = 26,30,40,
	[100,200,10,20,50,64]	Count = 4 Values = 100,200,50,64,
	[77]	Count = 1 Values = 77,
	[]	Count = 0 Values =

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Task 6	Given an array, add 10 to all the elements in the array.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[2,3,5,7]	[12,13,15,17]
	[23,25]	[33,35]
	[6]	[16]

Task 7	Given an array, add Hello to all the elements in the array. Also, print the array.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	['Jack', 'Mary']	['Hello Jack', 'Hello Mary']
	['Jack']	['Hello Jack']
	[]	[]

Task 8	Given an array as input, convert all odd numbers in the array to the nearest even number greater than it. Also, print the array.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[5,18,23,30]	[6,18,24,30]
	[5,7,9]	[6,8,10]
	[72]	[72]

Task 9	Given an array of numbers as input, find out which of the first or last element is larger. If the first is larger print FIRST, if the last is larger print LAST. If they are equal print EQUAL. Also print the value.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[4,8,12,20,6]	LAST:6
	[10,8,6,4,2,0]	FIRST:10
	[15,15]	EQUAL:15
	[40]	EQUAL:40
	[2,4,6,8,6,4,2]	EQUAL:2

Task 10	Given two array of integers, print Big1 if the sum of the numbers of first array is more, print Big2 if the sum of the numbers of the second array is more, print Equal if it is the same.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[1,2,3],[10,20,30]	Big2
	[1,3,5,7,9],[2,4,19]	Equal
	[50,100],[1,2,3,4,5,6]	Big1
	[2,4,6,8],[20]	Equal

Task 11	Given an array as input, find the largest number in the array.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[5,18,26,30,40,6]	Max=40
	[100,200,10,20,50,64]	Max=200
	[77]	Max=77
	[25,20,14,2,7,21]	Max=25

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Task 12	Given an array as input, print ALLSAME if all the numbers in the array are the same otherwise print DIFFERENT.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[12,13,12,12,12]	DIFFERENT
	[14,14,14,14]	ALLSAME
	[3,3,3,6]	DIFFERENT
	[18,18]	ALLSAME
	[6]	ALLSAME

Task 13	Given an array as input, count the elements that are divisible by at least one of 2, 3, 5 and 7.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[10,12,14]	Count=3
	[210]	Count=1
	[3,4,5,6]	Count=4
	[11, 17, 8, 10, 21]	Count=3
	[1,2,3,4,5,6,7,8,9,10,11]	Count=9
	[11,13,17,19,23,121,169]	Count=0

Task 14	Given an array as input, print SEQUENCE if the numbers in the array are ordered consecutive numbers otherwise print NOT.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[12,13,14,15,16,17]	SEQUENCE
	[4,3,2,5]	NOT
	[3,4,5,6]	SEQUENCE
	[12,11,10]	NOT
	[6]	SEQUENCE
	[34,35]	SEQUENCE
	[1,1,2,3]	NOT

Task 15	Given an array as input, print ALTERNATING if the first element is even, second element is odd, third element is even, fourth is odd and so on. Print NOT otherwise.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[2,3,4,5,6,7]	ALTERNATING
	[4,9,16,25,49]	NOT
	[3,4,5,6]	NOT
	[4,5,6,7,8,9,10]	ALTERNATING
	[10]	ALTERNATING
	[7]	NOT
	[12,25]	ALTERNATING

Task 16	Given a string as input, print AB FOUND if in the array there is an 'a' immediately followed by 'b' otherwise print AB NOT FOUND.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	'javascript'	AB NOT FOUND

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	'TESTabcdef'	AB FOUND
	'acbcadbd'	AB NOT FOUND
	'bat+ball'	AB NOT FOUND
	'nicebaby'	AB FOUND

Task 17	Given an array as input, create a new array with the even numbers in the input array. Use push.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[5,18,26,30,40,6,9]	[18,26,30,40,6]
	[6]	[6]
	[77]	[]
	[20,14,2,7,18]	[20,14,2,18]

Task 18	Given an array as input, create a new array with the even numbers in the input array. Use unshift.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[5,18,26,30,40,6,3]	[6,40,30,26,18]
	[6]	[6]
	[77]	[]
	[20,14,2,7,18]	[18,2,4,20]

Task 19	Given an array, use pop in a loop to print all the elements in the array.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[40,6,9]	Pops = 9 6 40
	[6]	Pops = 6
	[]	Pops =
	[20,14,2,7,18]	Pops = 18 7 2 14 20

Task 20	Given an array, use shift in a loop to print all the elements in the array.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[40,6,9]	Shift = 40 6 9
	[6]	Shift = 6
	[]	Shift =
	[20,14,2,7,18]	Shift = 20 14 2 7 18

Task 21	Given an array of names and a name, find and remove the name from the array.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	['Jack','Bob','Ed','Steve'], Bob	['Jack','Ed','Steve']
	['Jack','Bob','Ed','Steve'], Jack	['Bob','Ed','Steve']
	['Jack','Bob','Ed','Steve'], Steve	['Jack','Bob','Ed']
	['Jack','Bob','Ed','Steve'], Bill	['Jack','Bob','Ed','Steve']
	['Jack'], Jack	[]

Task 22	Given an array as input, find the largest number in the array and remove it.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[5,18,26,30,40,6]	[5,18,26,30,6]

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	[100,10,20,50,64,200]	[100,10,20,50,64]
	[77]	[]
	[25,20,14,2,7,21]	[20,14,2,7,21]

Task 23	Given an array of numbers sorted in ascending order and a number, insert the number in the right position in the array.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[5,18,26,30,40], 6	[5,6,18,26,30,40]
	[10,20,50,64], 99	[10,20,50,64,99]
	[5], 7	[5,7]
	[5], 2	[2,5]

Task 24	Given two arrays as input, create a new array using concat..	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[5,18,26,30], [40,6]	[5,18,26,30,40,6]
	[100,10],[20,50,64,200]	[100,10,20,50,64,200]
	[], [1,2,3]	[1,2,3]
	[2,7,21], []	[2,7,21]

Task 25	Given two arrays as input, create a new array by putting the an element from the first array and then an element from the second array. Use push to add elements to the new array.	
Test Cases	<b>Input</b>	<b>Expected Output</b>
	[5,18,26,30], [101,102]	[5,101,18,102,26,30]
	[1,2],[20,50,60,70]	[1,20,2,50,60,70]
	[], [1,2,3]	[1,2,3]
	[2,4,6,8], []	[2,4,6,8]