

Do these Examples in Any language of your choice Like **C++** , PHP , **Javascript** , Java , **Kotlin** , **Python**

And upload it on GitHub from your account

Without Duplicate A

0	1	2	3	4	5	6	7	8	9
99	48	34	57	65	23	54	22	43	21

With Duplicate B

0	1	2	3	4	5	6	7	8	9
99	43	34	54	65	23	54	22	43	21

String Array C

0	1	2	3	4	5	6	7	8	9
Abdul	Owais	Asad	Talal	Talha	Ali	Azhar	Sami	Bakr	Umar

Write the functions

1. Print all the elements in the array (Code: Arr-PrintArray)
2. Write a code that assign the values of an array into another array (Code: Arr-ReverseArray)
3. Write a function to Return the Reverse of the array (Code: Arr-ReverseArray)

a. Input

1	22	31	4	55
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b. Output

55	4	31	22	1
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4. Write a function to Return the mode of the array

1	2	1	4	3	2	2	3	4	5
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5. Return the minimum element of the array
6. Return the Maximum element of the array
7. Return the length of the array
8. Insert the element in the start of the array
9. Insert the element in the end of the array
10. Insert the element in the middle
11. Write a function that returns the Middle element of the array
12. Write a function that returns the random index of the array
13. delete the element in the start of the array
14. delete the element in the end of the array
15. delete the element in the middle
16. Return the sum of the array.

17. Return the average of the array.

99	48	34	57	65	23	54	22	43	21
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Return : 46.6

18. Return array of elements which are less than the average of the array.

19. Get the total elements which are even numbers.

20. Get the total number of prime numbers in the array.

21. Get the substring of the array.

22. Compare if two Arrays are equal or not in sequence

23. Compare if two Arrays have same numbers or not ?

24. Filter : Return the element of the array which qualifies the filter.

25. Find the Least Difference between any consecutive numbers.

26. Find the Least Difference between any numbers.

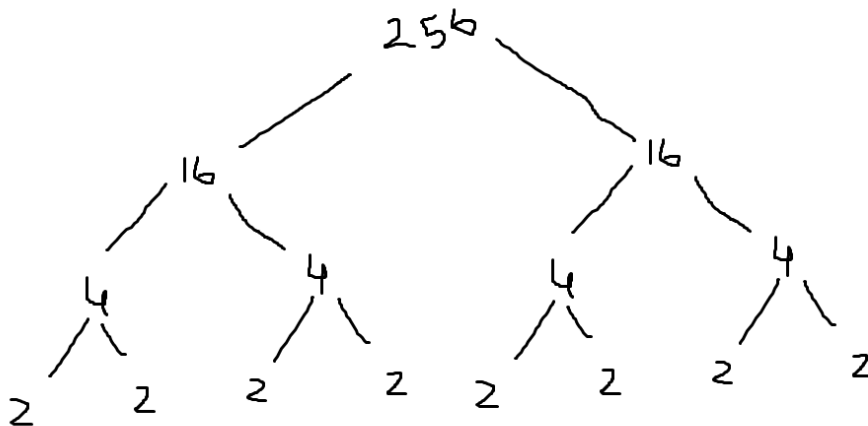
27. Make a Binary Tree using Array

Final Equivalent Array will be this representation of a Binary Tree

99	48	34	57	65	23	54	22	43	21
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28. Make this Binary Tree (Array Implementation) if user enters $x = 256$

Hint: you should be familiar of creating Array of Dynamic Size



29.

30. Is Complete binary tree.

31. IsMaxHeap return boolean.

32. IsMinHeap return boolean.

33. [Is Binary Search Tree ?](#)

34. Remove Duplicates elements from the array.

35. Return the Count of leaf nodes from the Array Implementation of Tree.

36. Return the Count of Single Parent Nodes Only from the Array Implementation of Tree.

37. Return the Count of Parent Nodes from the Array Implementation of Tree.

38. Write a function to return the array of n integers with fibonacci numbers.

39. Write a function to return the array of prime numbers

40. Write a function to return the array of factorials of n numbers mapped with their index array
 number : Need to share the diagram of array for more clearance
41. Sort the Array in Ascending /Descending Order
42. Write a function to Return the median of the array

99	48	34	57	65	23	54	22	43	21
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43. Write a function `doesExist` to return a boolean if element `e` exist in it or not
44. Write a function `count` how many times an integer exist in the array
45. Write a function to find out if array is empty or not
46. Write a function to find out if array is Full or not
47. Write a function to insert an element at specific index
48. Write a function to insert an element `y` next to element `x`.
49. Shift elements to the right `k` number of times (explain with example)
50. Move elements of array `k` number of times in such a way that on shifting last element takes the position of the first element.
51. Find out if the array is palindrome or not ?

1	2	3	4	5	4	3	2	1
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Return true for the above integer array

52. ForEach element in the integer array update the elements by doubling it.
53. Return the index of the element after finding it in an array incase of non existent return -1;
54. Takes two Arrays as a Parameter and returns an array with only common elements.
55. Write a Function such that it accepts an integer array of size `n` and picks a random number from that array let say `r` and rearranges the array such that all the less elements from are should be on left side of `r` and others will be on right side of the array.
 [1,4 , 9 ,5 ,6 ,7 , 3] and the random number is 5
 so the resulting array should be like [1 , 4, 3 ,5 ,9,6,7]
56. Suppose you have a character array containing your name letters you have to remove the vowels from it and then return the array.
57. Write a function `isEquivalent()` that compares two arrays for each element and returns true if they are equal and false if they are not equal
 E.g [1 , 2 ,3 ,3,4, ,4 , 5] and [2 ,1, 3 ,4 ,5] are equal