

1-D Array Programs

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1. Write a Java program to store characters in an array and print the characters in reverse order.

Input-{1,2,3,4,5,6}

Output-{1,3,5,}

3. Write a Java program to print odd index values of an array.

Input-{1,2,3,4,5,6}

Output-{2,4,6}

4. Write a Java program to print even elements present in an array.

Input-{1,2,3,4,5,6}

Output-{2,4,6}

5. Write a Java program to print odd elements present in an array.

Input-{1,2,3,4,5,6}

Output-{1,3,5}

6. Write a Java program to print the sum of an array of elements.

Input-{1,2,3,4,5,6}

Output-{21}

7. Write a Java program to print even index values sum and odd index values sum.

Input-{1,2,3,4,5,6}

Output-{ 9 (sum of even index), 12(sum of odd index) }

8. Write a Java program to print even elements sum.

Input-{1,2,3,4,5,6}

Output-{12}

9. Write a Java program to print odd elements sum.

Input-{1,2,3,4,5,6}

Output-{9}

10. Write a Java program to print the 2nd last element of an array.

Input-{1,2,3,4,5,6}

Output-{5}

11. Write a Java program to print prime numbers present in an array.

Input-{1,2,3,4,5,6}

Output-{2,3,5}

12. Write a Java program to print ovals present in an array.

Input-{a,b,c,d,e,f,g}

output-{a,e}

13. Write a Java program to count the number of zeros(0) present in a given array.

Input-{1,0,3,0,5,6,0}

Output-{3}

14. Write a Java program to insert even values in an array, the user will enter the values.

15. Write a Java program to print an array's last index value of a given element.

Input-{1,2,9,3,9,4,9,6,7,8} find the last index of 9

Output-{5}

16. Write a Java program to count the occurrence of each element in a given array.

Input-{1,2,1,3,2,4,}

Output-{1-2, 2-2, 3-1, 4-1}

17. Write a Java program to find the maximum occurred element in a given array.

Input-{1,2,1,3,1,4,}

Output-{1-3}

18. Write a Java program to find the minimum occurred element in a given array.

Input-{1,2,1,1,2,1}

Output-{2-2}

19. Input-{1,2,3,4,5}

Output-{1,4,9,16,25} (square of each element)

20. Write a Java program to find the largest element in a given array.

Input-{1,2,1,3,2,4,}

Output-{4}

21. Write a Java program to find the smallest element in a given array.

Input-{1,2,1,3,2,4,}

Output-{1}

22. Write a Java program to find 2nd largest element in a given array.

Input-{1,2,1,3,2,4,}

Output-{3}

23. Write a Java program to find 2nd smallest element in a given array.

Input-{1,2,1,3,2,4}

Output-{2}

24. Write a Java program to convert 0 into -1 and -1 into 0.

Input-{0,2,-1,0,2,-1,3}

Output-{-1,2,0,-1,2,0,3}

25. Input-{23,55,57,93,10,1}

Output-{5,1,3,3,1,1} (Sum of each element up to single digit)

26. Write a Java program to remove the elements present more than once.

Input-{1,2,1,3,2,4}

Output-{3,4}

27. Write a Java program to remove duplicates.

Input-{1,2,1,3,2,4}

Output-{1,2,3,4}

28. Input-{23,55,57,93,1}
Output-{32,55,75,39,1} (Reverse each element)
29. Write a Java program to add elements of 2 arrays.
- | <u>Test case -1</u> | <u>Test case -2</u> |
|-------------------------|-------------------------|
| Input-1-{2,3,4,1} | Input-1-{2,3,5,6,7,8,9} |
| Input-2-{2,3,5,6,7,8,9} | Input-2-{2,3,4,1} |
| Output-{4,6,9,7,7,8,9} | Output-{4,6,9,7,7,8,9} |
30. Input-{231,554,572,962,24,1}
Output-{2,4,2,8,6,1} (Sum of even digits of each element)
31. Write a Java program to merge two arrays.
- Input-1-{1,2,3}
Input-2-{4,5,6}
output-{1,2,3,4,5,6}
32. Write a Java program to shift zeros (0) to the right side of the array.
- Input-{2,0,5,3,1,0,3,1}
output-{2,5,3,1,3,1,0,0}
33. Write a Java program to shift zeros (0) to the left side of the array.
- Input-{2,0,5,3,1,0,3,1}
output-{0,0,2,5,3,1,3,1}
34. Write a Java program to find the length of an array without using the length attribute.
35. Write a Java program to print repeated elements present in an array.
- Input-{1,2,3,4,3,2}
Output-{2,3}
36. Input-{1,2,3,4} insert 5 in index 3
output-{1,2,3,5,4}
37. Input-{1,2,3,4} delete 2nd index element
output-{1,2,4}

38. Write a Java program to print distinct elements present in two arrays.

Input-1-{1,2,4,5,6}

Input-2-{2,5,8,9,3,1}

output-{4,6,8,9,3}

39. Write a Java program to print common elements present in two arrays.

Input-1-{1,2,4,5,6}

Input-2-{2,5,8,9,3,1}

output-{1,2,5}

40. Write a Java program to shift half of the elements to the right side of the array.

Input-{2,5,8,9,3,1}

output-{9,3,1,2,5,8}

41. Write a Java program to print missing elements.

Input-{2,4,6,8,13}

output-{3,5,7,9,10,11,12}

42. Write a Java program to convert numbers into words

Input-2917

Output-two thousand nine hundred seventeen

43. Write a Java program to shuffle array elements each time we execute the program.(using Math.random() method).

44. Write a Java program to remove the elements present before the given index number.

Test case-1

a={1,2,4,5,1,3,2}

Index-3

Output-{5,1,3,2}

Test case-2

a={1,2,4,5,1,3,2}

Index-5

output-{3,2}

45. Write a Java program to copy an array using arraycopy() method.
46. Write a Java program for linear search.
47. Write a Java program for binary search.
48. Write a Java program to sort array elements in ascending order
Input-{9,5,6,1,2,7}
Output-{1,2,5,6,7,9}
49. Write a Java program to sort array elements in descending order
Input-{9,5,6,1,2,7}
Output-{9,7,6,5,2,1}
50. Write a Java program for bubble sorting.
51. Write a Java program for insertion sort.
52. Write a Java program for selection sort.
53. Write a Java program for quick sorting.
54. Write a Java program for merge sort.
55. Write a Java program to sort array elements using the sort() method.
56. Write a Java program to arrange the given string array into ascending order.
input-{"Ram", "Amar", "Cel", "David", "Bunny"}
output-{"Amar", "Bunny", "Cel", "David", "Ram"}
57. Write a Java program to arrange the given character array into ascending order.
input-{R, A, C, D, B}
output-{A, B, C, D, R}