

## Assignment – 7

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1. Take 10 integer inputs from user and store them in an array and print them on screen.
2. WAP to print the alternate values from an array.
3. Take 10 integer inputs from user and store them in an array. Again ask user to give a number. Now, tell user whether that number is present in array or not.
4. Take 20 integer inputs from user and print the following:  
number of positive numbers  
number of negative numbers  
number of odd numbers  
number of even numbers  
number of 0s.
5. Take 10 integer inputs from user and store them in an array. Now, copy all the elements in another array but in reverse order.
6. Write a program to find the sum and product of all elements of an array.
7. Write a program to check if elements of an array are same or not it read from front or back. E.g.- {2,3,15,15,3,2}.
8. WAP to find the maximum and minimum value in an array.
9. WAP to find and count total number of duplicate elements in an array.
10. Write methods that return the average of an array with following headers and invoke the method from main
  - i. `public static int average(int[] array).`
11. WAP to arrange the elements of an given array of integers where all negative integers appear before all the positive integers.
12. What is use of variable arguments show with example?
13. Write a program to sort array of string in descending order of string length. If two strings have same length sort them in ascending order of alphabets.  
E.g. `String [] sarr = {"hi", "how", "are", "you", "doing"}`

Output will be {"doing", "are", "how", "you", "hi"}

14. Write a java program to separate zeros from non-zeros in an integer array?

Input Array - [12, 0, 7, 0, 8, 0, 3]

Input Array After moving zeros to end - [12, 7, 8, 3, 0, 0, 0]

15. Integer type array contains values like {72, 69, 76, 76, 79}.

Write a code to replace each array element by 0 if it ends with 9. So, above array would look like {72, 0, 76, 76, 0}.

16. Write a java program to find all pairs of elements in an integer array whose sum is equal to a given number?

Input Array - [4, 6, 5, -10, 8, 5, 20]

Input Number - 10

Pairs of elements whose sum is 10 are -

$$4 + 6 = 10$$

$$5 + 5 = 10$$

$$-10 + 20 = 10$$