Array Assignment

- 1. Take 10 integer inputs from user and store them in an array and print them on screen.
- 2. 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.
- 3. 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.

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- 4. Take 10 integer inputs from user and store them in an array. Now, copy all the elements in another array but in reverse order.
- 5. Find largest and smallest elements of an array.

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- 6. Write a program to check if elements of an array are same or not read it from front or back.
- 7. Write a program to shift every element of an array to circularly right. E.g.-INPUT: 12345 OUTPUT: 5 1 2 3 4
- 8. Sorting refers to arranging data in a particular format. Sort an array of integers in ascending order. One of the algorithms is selection sort. Use below explanation of selection sort to do this. INITIAL ARRAY:
 - 45 15 First iteration: Compare every element after first element with first element and if it is larger than swap. In first iteration, 2 is larger than 1. So, swap it.

2 15 Second iteration: Compare every element after second element with second element and if it is larger than swap. In second iteration, 3 is larger than 2. So, swap it.

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Third iteration: Nothing will swap as 3 is smaller than every element after it.

Fourth iteration: Compare every element after fourth element with fourth element and if it is larger than swap. In fourth iteration, 45 is larger than 15. So, swap it.

1 2 3 15 45

9. Input any number. Find the sum of the digits of the number using a recursive function.