**Strings:**

1. Write a program to reverse a String
2. Write a program to reverse a String with recursive algorithm?
3. Write a program to reverse first half separately and 2nd half separately?
4. Write a program to rotate one char in a given string
5. Find out length of the string without length() method of a String?
6. Find out how many words are there in a given string?
7. Write a java program to find the duplicate words and their number of occurrences in a string?
8. Write a program to reverse the given string word wise?
9. Rotate the string word wise by one
10. Write a java program to count the total number of occurrences of a given character in a string?
11. Write a java program to count the number of occurrences of each character in a string?
12. Write a java program to remove all white spaces from a string?
13. Write a program to check whether given string is a palindrome or not?
14. Write a program to check whether given two strings are anagrams?
15. Write a program to check the balance of brackets in the given string?
16. Write a java program to find duplicate characters in a string?
17. Write a java program to check whether one string is a rotation of another?
18. Write a java program to reverse a given string with preserving the position of spaces?
19. Write a java program to reverse each word of a given string?

1. Write a java program to find the percentage of uppercase letters, lowercase letters, digits and special characters in a given string?
2. How do you find longest substring without repeating characters in the given string?
3. How do you swap two string variables without using third or temp variable in java?
4. Write a java program to find all permutations of a string?
5. How do you find first repeated and non-repeated character in the given string in java?

**Number Theory:**

1. Print bigger number from 2 given numbers.
2. Print smaller number from 3 given numbers.
3. Print middle number from 3 given numbers.
4. Print ascending order of 3 given numbers
5. Print true, if sum of any 2 numbers is a 3rd given number
6. Print true, if sum of squares of any 2 numbers is a 3rd given number
7. Find out given number is an even or odd?
8. Find out immediate next 5 multiple of a given number?
9. Print all odd numbers between two given numbers?
10. Find out sum of all even numbers between two given numbers?
11. Print java for multiples of 4 and print j2ee for multiples of 5 and if number is multiple of 4 and also 5, then print lara. Continue till to 100.
12. Find out whether digits are in raising order or not in a given numer?
13. Swap two int variables without 3rd variable?
14. Find out total digits of a given number?
15. Find out sum of all digits of a given number?
16. Reverse a given number?
17. Find out given number is a palindrome or not?
18. Assume total number of digits in a given number is even. Reverse only first half of the given number
19. Assume given number containing 3 digits. now check it out first two digits sum is 3rd digit or not?
20. Find out factorial value for a given number?
21. Develop a program to find out given number is a prime or not?
22. Develop a program to print initial 20 prime numbers?
23. Develop a program to print prime numbers between 50 and 100?
24. Develop a program to print prime numbers between two given numbers?
25. Develop a program to print 20 prime numbers from 100.
26. Develop a program to print sum of initial 30 prime numbers?
27. Develop a program to print sum of prime numbers between two given numbers?
28. Develop a program to print prime numbers in the reverse order from 70 to 20?
29. Develop a program to print prime numbers which are immediately after multiples of 10 and bellow 200.
30. Develop a program to print prime numbers which are just before multiples of 10 and bellow 200.
31. Develop a program to print 30 prime numbers which are having digits in the raising order after 10. (Example: 13, 17, 19, 23, 29, 37, 39, 47,……)
32. Develop a program to print 30 prime numbers which are having digits in the descending order after 10. (Example: 31, 41, 43, 51, 53, 61, 71, 73, ,……)
33. Develop a program to print numbers which should come after 3 non prime numbers. Develop between 10 to 100.
34. Print Fibonacci series till to 100.
35. Print initial 10 numbers from the Fibonacci series.
36. Print Fibonacci series from 100 to 10000?
37. Print Fibonacci series in the reverse order from 5000 to 500?
38. Print immediate next number in the Fibonacci series? Consider till to 5000
39. Print all prime numbers only from the Fibonacci series? Continue till to 5000
40. Find out given number is an Armstrong number or not?
41. Find out initial 3 Armstrong numbers (Consider from 10)
42. Find out all Armstrong numbers between 2 given numbers?
43. Find out given number is a perfect number or not?
44. Find out initial 5 perfect numbers (Consider from 10)
45. Find out all perfect numbers between 2 given numbers?
46. Find out given 2 numbers are anagrams or not Anagrams for 123 are 321, 312, 213, 231, 131
47. Assume given number containing even number of digits. Reverse only 2nd half of the number?
48. Find out sum of the digits of a given number?

123 -> 6

67 -> 13 -> 4

869 -> 24 -> 6

1. Move first half to second and second half to first? (total digits are even) Ex: 123456 convert to 456123,

903512 convert to 512903

1. Every digit swap with immediate digit. (total digits are even) Ex: 123456 convert to 214365

**ARRAYS:**

1. Find the sum of all given elements from an int array?
2. Find the min element from the given int array?
3. Find the max element from the given int array?
4. Find the 2nd min element from the given int array?
5. Find the 2nd max element from the given int array?
6. Find the average value of an int array?
7. Find out the sum of all even indexed elements from a given int array?
8. Find out the sum of all odd indexed elements from a given int array?
9. Find out the min value from all even indexed elements from a given int array?
10. Find out the max value from all odd indexed elements from a given int array?
11. Find out the avg value from all even indexed elements from a given int array?
12. Find out the avg value from all odd indexed elements from a given int array?
13. Find out the sum of all elements from a first half of given int array?
14. Find out the sum of all elements from a second half of given int array?
15. Find out the min value from a first half of given int array?
16. Find out the min value from a second half of given int array?
17. Find out the max value from a first half of given int array?
18. Find out the max value from a second half of given int array?
19. Find out the avg value from a first half of given int array?
20. Find out the avg value from a second half of given int array?
21. Read all elements from an array in the reverse order?
22. Read first half of the elements in the reverse direction from an array?
23. Read second half of the elements in the reverse direction from an array?
24. Read only even indexed elements from an array?
25. Read only even indexed elements from an array in the reverse order?
26. Read only odd indexed elements from an array?
27. Read only odd indexed elements from an array in the reverse order?
28. Find out an index of a specified element from a given array?
29. Swap two given indexed elements from the array?
30. Reverse the elements of given array?
31. Reverse only first half of the elements of given array?
32. Reverse only last half of the elements of given array?
33. Reverse only even indexed of the elements of given array?
34. Reverse only odd indexed of the elements of given array?
35. Swap odd indexed elements with its immediate next even indexed elements of given array?
36. Do right shift by one for elements of given array?