Coding Questions for Interview

Q1. Write a java program to find greatest between two numbers without using if-else and conditional operator. (in-built method should not be used)

Q2. Write a java program to divide a number by 4 without using / operator.

Q3. Write a java program to remove duplicate element from a sorted array without using any other data structure including array.

Q4. Write a java program to check whether two given number 'a' and 'b' are consecutive term in the Fibonacci series or not.

Q5. Write a java program to check whether a number is even or not without using arithmetic or relational operator.

Q6. Write a java program to find sum of digit of a given number until it becomes a single digit number.

Q7. Write a java program to find second largest element from a given unsorted integer array.

Q8. Write a java program to arrange the element of an integer array so that all negative element will be at one side and all positive element will be in other side.

Q9. Write a java program to find sum of each row and each column of a given matrix.

Q10. Write a java program to find minimum and maximum occurring character of a given string.

Q11. Write a Java program to print all permutations of a given String. For example, if given String is "GOD" then your program should print all 6 permutations of this string, e.g., "GOD," "OGD," "DOG," "GDO," "ODG," and "DGO."

Q12. Assume you have different currency notes of values Rs. 1, Rs 2, Rs. 5, Rs. 10, Rs. 20, Rs. 50 and Rs. 100 respectively. Write a program to calculate the minimum number of currency notes required to make a certain amount of Rs X.

Test Cases:
  (a)   X=205, Number of notes=3
  (b)   X=5, Number of notes=1
  (c)   X=4, Number of notes=2

Q13. An integer n is divisible by 9 if the sum of its digits is divisible by 9. Develop a program to display each digit, starting with the rightmost digit. Your program should also

determine whether or not the number is divisible by 9. Test it on the following numbers:

(d)   n = 154368
(e)   n = 621594
(f)   n = 123456

Q14. Write a program to find whether it is possible to get a palindrome number from a given number by re-arranging the positions of its digits. If yes, the program should print 2, else it must print 1.

Example 1:
If the given number is 21251, it is possible to form a palindrome by re-arranging its digits, as 21512 or 12521. So, the program must print 2.

Example 2:
If the given number is 2125, it is not possible to form a palindrome by re-arranging its digits. So, the program must print 1.

Assumption:
The input number will be positive integer number greater than or equal to 1 and less than or equal to 25000.

Q15. Write a java program to print the following pattern.

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   1
  1 2 A
 1 2 3 B A
1 2 3 4 C B A
1 2 3 4 5 D C B A
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