ZOHO L2 QUESTIONS - SET 5

1.Input : P R O G R A M
Explanation : start with middle letter from first line. Next line two letter from middle . Continue still you print all letters in last line.
Output :

```
          G
        G R
      G R A
    G R A M
  G R A M P
G R A M P R
G R A M P R O
```

2. Input : B A S I C
Output :

```
      S
    S I
  S I C
S I C B
S I C B A
```

3.Using recursive function convert binary number to decimal number
Input=110110
Output=54

Input=100
Output=4
(without using power function or power concept)

4.Print the max sum of continuous positive numbers and also the elements in an array
Input: {-8,11,15,-10,12,17,19,-1}
Output: max sum=48 elements={12,17,19}

Input: {1,-8,7,8,9,-10,32,-11}
Output: max sum=30 elements={30}

5.Find if a String2 is substring of String1. If it is, return the index of the first occurrence. else return -1.

Input: String 1: test123string, String 2: 123
Output: 4
Input: String 1: testing12, String 2: 1234
Output: -1

6.Given two sorted arrays, merge them such that the elements are not repeated

Input: Array 1: 2,4,5,6,7,9,10,13
Array 2: 2,3,4,5,6,7,8,9,11,15
Output: Merged array: 2,3,4,5,6,7,8,9,10,11,13,15

7.Using Recursion reverse the string such as

Input: one two three
Output: three two one
Input: I love india
Output: india love I

8.Given a Date string, add the given milliseconds and print the resultant date

Input : 08 July 2015 12:00:00 000 Wed
90000000
Output : 09 July 2015 13:00:00 000 Thu
Explanation : 90000000 in milliseconds is 25 Hours. So the resulting
date is the next day + 1 Hour.

9.Check whether a given mathematical expression is valid.

Input : (a+b)(a*b) Output : Valid
Input : (ab)(ab+) Output : Invalid

10.Given an integer array, write a function to reverse every set of 'k' numbers. Modify the same array without creating another array. Reverse the remaining elements even if it is less than 'k'.

Input: {2, 1 , 3 , 5 , 8 , 6 , 7 , 9} and k = 3

Output: {3 , 1 , 2 , 6 , 8 , 5 , 9 , 7}

**********ALL THE BEST**********