Questions:

1. Write code to convert a given number into words. For example, if “341234” is given as input, output should be “three million Fourty one thousand two hundred thirty four”.

2. Given a MAP as below:

Const M = {

“1” : [‘A’, ‘B’, ‘C’]

“2” : [‘D’, ‘E’, ‘F’]

“3” : [‘G’, ‘H’, ‘I’]

“4” : [‘J’, ‘K’]

“5” : [‘L’, ‘M’],

}

Write function such that it join map as below:

f(12, M) => [AD, AE, AF, BD, BE, BF, CD, CE, CF] //9

f(123, M) => [ADG, ADH, ADI,…..CFG, CFH, CFI] //27

3. Given a string and a dictionary of valid words, determine if you could insert zero or more spaces into the string such that the resulting string would be composed entirely of valid words.

Example: bedbathandbeyond => breakable since ["bed", "bath", "and", "beyond"] or ["bed", "bat", "hand", "beyond"]

4. WAP to find max subarray in array of integers, for e.g.

a[] = {-2, 3, -1, -4 , 4, 3, -1, 2 ,3 , -4, 1}

maxsubarray[] = {4,3,-1,2,3}

5. Write a program to sort array such that it has maximimu then minimum, then next maximum, then next minimum, for e.g

a[] = {1,4,10,15,2,45}

finalArray[] = {45,1, 15, 2, 10, 4}

6. Write a program to find a single number in an array that doesn't occur twice.

a[] = {1,2,3,4,2,1}

Answer = 3

7. Write all the possible combinations of a string, for e.g.

a = "ABC"

combinations = {"ABC", {ACB}, {BAC}, {BCA}, {CAB}, {CBA}}

8. Evaluate an array and find if the two numbers of array can produce a sum.

[2, 3, 4 ,6, 9] => 8 => true

[2, 3, 6, 9] => 7 => false

9. Move all the 0’s in an array to RHS.

a[] = {2, 0 ,3 , 4 ,0 ,4 , 5, ,5 ,0, 0}

10. Minimum sum of two numbers formed from digits of an array. Given an array of digits (values are from 0 to 9), find the minimum possible sum of two numbers formed from digits of the array. All digits of given array must be used to form the two numbers.

Examples:

Input: [6, 8, 4, 5, 2, 3]

Output: 604

The minimum sum is formed by numbers

358 and 246

Input: [5, 3, 0, 7, 4]

Output: 82

The minimum sum is formed by numbers

35 and 047

11. Given an array of distinct integers, find if there are two pairs (a, b) and (c, d) such that a+b = c+d, and a, b, c and d are distinct elements. If there are multiple answers, then print any of them.

Example:

Input:   {3, 4, 7, 1, 2, 9, 8}

Output:  (3, 8) and (4, 7)

Explanation: 3+8 = 4+7

12. Given a string which consists of only 0s, 1s or 2s, count the number of substrings that have equal number of 0s, 1s and 2s.

Examples:

Input  :  str = “0102010”

Output :  2

Explanation : Substring str[2, 4] = “102” and

              substring str[4, 6] = “201” has

              equal number of 0, 1 and 2

Input : str = "102100211"

Output : 5

13. WAP to decode the string pattern in actual form, for e.g.

3[b2[ca]] = bcacabcacabcaca

14. WAP to find the alphabetic combinations of an integer, for e.g

a = 1121

combinations = {aaba, aau, ala, kba, ku}

15. write a program to find longest palindrome in a given string

16. write a method in an array 1 - 100 are stored, one number is missing how do you find it

17. Write a program to find a single number in an array that doesn't occur twice.

a[] = {1,2,3,4,2,1}

Answer = 3