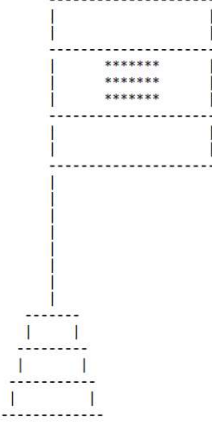


C++ Lab 'A' 'B', 'C' 25-1-2023

1.	<p>Code to print the Indian flag pattern using functions. Number of functions should be of minimum.</p> 		
2.	<p>MaxMinDigit, Sumdigits-recursive</p> <p>Code a recursive function which prints maximum digit, minimum digit among all the digits of a given number, and sum of all digits.</p> <p>input: n = 7496 Output : max digit =9 min digit = 4 sum = 26</p> <p>input : n = 63257 Output : max digit =8 min digit is = 2 sumd = 23</p>		
3.	<p>Max Min Sum Reverse Palindrome of Array:</p> <p>Write a single function that will output maximum, minimum, sum, reversing array elements and checks if the array is a palindrome for the given array.</p> <p>The main() function calls that single function and in the main function only the values are to be printed.</p> <p>sample coding format</p> <pre>..... findmaxminsumrevpalin(.....)</pre> <pre>main () { findmaxminsumrevpalin(.....) cout << ... << ... << ... ; for (, ,) cout << cout << }</pre>		
	<p>Example 1 : input : number of array elements n = 8</p> <p>Array A = { 4 7 1 6 2 9 1 5 },</p> <p>then the output should be as :</p> <p>9 1 35</p> <p>5 1 9 2 6 1 7 4</p> <p>0 (means not a Palindrome)</p> <p>(1 means palindrome)</p>	<p>Test case 1</p> <p>Input:</p> <p>8</p> <p>4 7 1 6 2 9 1 5</p> <p>Output:</p> <p>9 1 35</p> <p>5 1 9 2 6 1 7 4</p> <p>0</p>	<p>Test case 2</p> <p>Input:</p> <p>11</p> <p>8 2 4 1 5 9 5 1 4 2 8</p> <p>Output:</p> <p>9 1 49</p> <p>8 2 4 1 5 9 5 1 4 2 8</p> <p>1</p>

4.	<p>Merge Arrays within</p> <p>Given two sorted integer arrays 'A[]' and 'B[]' of size 'm' and 'n' each where 'm >= n' and 'A[]' has exactly 'n' vacant cells, merge elements of 'B[]' in their correct position in array 'A[]', i.e., merge '(A, B)' by keeping the sorted order.</p> <p>You should not use any other arrays, should use A and B only.</p> <p>Input : Two arrays A[] and B[] where vacant cells in A[] is represented by 0.</p> <p>A[] = [0, 2, 0, 3, 0, 5, 6, 0, 0]</p> <p>B[] = [1, 8, 9, 10, 15]</p> <p>Output: A[] = [1, 2, 3, 5, 6, 8, 9, 10, 15]</p> <p>Test case input :</p> <p>0 2 0 3 0 5 6 0 0 8 0 -1 (-1 is the end of input)</p> <p>1 7 9 10 12 15 -1 (-1 is the end of input)</p> <p>Test case Output :</p> <p>1 2 3 5 6 7 8 9 10 12 15</p>
5.	<p>Elfish word</p> <p>A word is considered elfish if it contains the letters: e, l, and f in it, in any order.</p> <p>For example, we would say that the following words are elfish:</p> <p>whiteleaf, tasteful, unfriendly, and waffles, because they each contain those letters.</p> <p>Code a recursive function to check whether a given word is elfish.</p> <p>You have to assume str1 = "elf"</p> <p>Input : (read 5 strings)</p> <p>Whiteleaf Tasteful Unfriendly waffles tested</p> <p>output :</p> <p>1 1 1 1 0</p>
6.	<p>Row Col equals of Matrix</p> <p>Read a MxN matrix of numbers.</p> <p>Code recursively to print equal rows and equal columns of the Matrix.</p> <p>Test case:</p> <p>Input : 5 4 (m , n)</p> <p>1 2 3 3</p> <p>2 3 4 4</p> <p>1 2 3 3</p> <p>1 2 2 2</p> <p>1 2 3 3</p> <p>Output :</p> <p>0 2 4 (rows 0 , row 2 and row 4 are equal)</p> <p>2 4 (column 2 and column 4 are equal)</p>
	<p>"It is not what you say, or wish, or hope or intend, it is only what you do that counts."</p> <p>-- Brian Tracy</p>
<p>" Like to do Hard Work Luck to be the Winner "</p> <p>- KR</p>	