2D Arrays

Assignment Questions





Assignment Questions



Q1: Take m and n input from the user and m * n integer inputs from user and print the following:

[easy]

number of positive numbers number of negative numbers number of odd numbers number of even numbers number of 0.

Input 1:



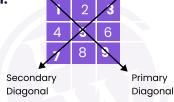
Output:

number of positive numbers = 7 number of negative numbers = 6 number of odd numbers = 7 number of even numbers = 9 number of 0 = 3

Q2: write a program to print the elements above the secondary diagonal in a user inputted square matrix.

[medium]

Input 1:

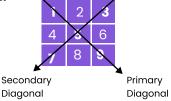


Output: 124

Q3: write a program to print the elements of both the diagonals in a user inputted square matrix in any order.

[medium]

Input 1:



Output 1:13579

Q4: Write a program to find the largest element of a given 2D array of integers.

[easy]

Input 1:

Assignment Questions



1 2 4 0 2 5 7 -1 4 2 6 9

Output:9

Q5: Write a function which accepts a 2D array of integers and its size as arguments and displays the elements of middle row and the elements of middle column. Printing can be done in any order.

[Medium]

[Assuming the 2D Array to be a square matrix with odd dimensions i.e. 3x3, 5x5, 7x7 etc...]

Input 1: 1

1 2 3 4 3 3 4 5 6 7 7 6 5 4 3 8 7 6 5 4 1 2 37 8 0

Output: 3 5 5 6 37 7 6 4 3