Assignment 5: Array

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1. WAP to add corresponding elements of two 1-Dimensional array and store in third array, also calculate the average of the2 third array.

2. WAP to count total no of odd and even numbers from the 1-D array.

3. WAP to sort an array in descending order.

4. WAP to exchange the smallest and largest values in 1-D array.

5. WAP to delete an element of an array given by the user.

6. WAP to insert an element in an array specified by the user.

7. Given an array arr[] of size N. The task is to find the sum of arr[i] % arr[j] for all valid pairs.

Answer can be large. So, output answer modulo 1000000007

Input: arr[] = {1, 2, 3}

Output: 5

(1 % 1) + (1 % 2) + (1 % 3) + (2 % 1) + (2 % 2)

+ (2 % 3) + (3 % 1) + (3 % 2) + (3 % 3) = 5

8. WAP to perform matrix multiplication of 3*3 matrixes.

9. Given an array of integers of size n, find out if the numbers in the array appear in a palindromic order. A palindrome is a sequence that reads the same when you flip it. For example, 121 is a palindrome, 3 is a palindrome, and 234432 is also a palindrome

10. Given two sorted arrays of sizes m and n, write a program that merges the two into another array of size m + n such that this new array also remains sorted.

11. WAP to subtract 2-D Matrices.