**Array:-**

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1) Write a C program to input 10 numbers through the keyboard into an array and

display the results of addition of even numbers and product of odd numbers.

2) Write a C program to input 10 numbers through the keyboard into an array and find the

biggest and smallest number in an Unsorted array without using any Sorting Technique.

3) Write a C program to input 10 numbers through the keyboard and find the number

of prime numbers count, store them into a seperate array and display it.

4) Write a C program to findout second largest and second smallest elements of an

unsorted array without using any Sorting Technique.

5) Write a C program to reverse the elements of a given array (not just reverse printing) .

Ex:

int a[] = {1, 3 , 5 , 4 , 2};

output = {2 , 4 , 5 , 3 , 1};

6) Write a C program to delete an element at desired position from an array.

Ex:

int a[] = {14 , 50 , 73 , 9 , 24 , 3 , 92 , -3};

if desired position is 4th then.

output = {14 , 50 , 73 , 9 , 3 , 92 , -3};

7) Write a C program to insert an element at desired position in an array.

Ex:

char a[6] = {‘B’,’C’,’D’,’E’,’F’}

if 'A' is to be stored at 0th position then.

output = {‘A’,‘B’,’C’,’D’,’E’,’F’}

8) Write a C program which deletes the duplicate elements of an array.

Ex:

char a[] = {‘A’,’C’,’B’,’D’,’A’,’B’,’E’,’D’,’B’,’C’}

output: {‘A’,’C’,’B’,’D’,’E’}

9) Write a C program to find the duplicate elements of a given array and find the count of

duplicated elements.

Ex:

int a[] = {0 , 3 , 1 , 0 , 5 , 1 , 2 , 0 , 4 , 5}

output:

The duplicate elements are existed in an array

0 -- 3 times

1 -- 2 times

5 -- 2 times

10) Write a program to print the non repeted numbers of a given array.

Ex :

int a[] = {0 , 3 , 1 , 0 , 5 , 1 , 2 , 0 , 4 , 5}

Output = 3 , 2 , 4

11) Write a program to copy the elements of one array into another array without duplicate

items as a first slot, and store duplicate elements as a second slot.

Ex:

source array {10 , 2 , 4 , 5 , 2 , 1 , 3 , 4 , 6 , 5 , 8 , 9 , 2}

destination arrays {10 , 2 , 4 , 5 , 1 , 3 , 6 , 8 , 9} , {2 , 2 , 4 , 5}

first slot second slot

Take two different arrays for first and second slots.

12) Write a C program to evaluate the following series. The series contains sum of

square of numbers from 1 to 'n'. Strore result of each term in an array. Calculate

value of ' S ' using array.

S = 1^2 + 2^2 + 3^2 + 4^2 + ------ n^2

= [ 1, 4, 9, 16, -------- n^2 ]

Suppose n = 4,

then S = 1^2+2^2+3^2+4^2;

S = 1+4+9+16;

S = 30.

13) There are 48 bits are stored in an array of character buffer and store them into 2

integer variables.

Ex:

char a[6] = {‘a’,’b’,’c’,’d’,’e’,’f’};

int num1=first 32 bits

int num2=last 16 bits

output:

num1= 1684234849

num2= 26213

-------------------------------------------------------- END --------------------------------------------------------