INDIAN SCHOOL AL WADI AL KABIR

 Holiday Homework, 2018-19

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| **Class: XI** | **Computer Science** | **Date of submission:** |
|   |  | 13-01-2019 |

1. Write a program in C++, which accepts an integer array and its size and rearrange the

array in reverse. Example if an array of five members initially contains the elements as

 6,7,8,13,9,19

 Then the function /program should rearrange the array as 19,9,13,8,7,6

1. Write a program in C++, which accept an integer array and its size and swap the

elements of every even location with its following odd location.

 Example : if an array of nine elements initially contains the elements as

 2,4,1,6,5,7,9,23,10

 Then the function/program should rearrange the array as 4,2,6,1,7,5,23,9,10

3. Write a program in C++ which accepts an integer array and replaces elements having

 odd values with thrice and elements having even values with twice its value.

 Example : If an array of five elements initially contains the elements

 3,4,5,16,9

 Then the function/progarm should rearrange the content of the array as 9,8,15,32,27

1. Write a program which accepts an integer array and its size as and replaces elements having

even values with its half and elements having odd values with twice its value

5 Program to input n numbers in to an array and sort them in descending order.

6. Program to input an array A and copy all odd numbers to another array B and all even

 numbers to another array C.

7. Program to input an array and replace even position numbers with its square and odd

 position numbers with its cube.

8. Program to input an array of size n and shift the elements to right by one position.

 Eg: if the array is 5 2 3 1 6

 Output is 6 5 2 3 1

9. Write the definition of a function AddUp(int Arr[], int N) in C++, in which all even positions (i.e.,

 0,2,4,...) of the array should be added with the content of the element in the next position and odd

 positions (i.e., 1,3,5,...) elements should be incremented by 10

Example : if the array Arr contains

23 30 45 10 15 25

Then the array should become

53 40 55 20 40 35

Also write the main program to input the array ,invoke AddUp() function and display the modified array

 10. Write the definition of a function CHANGE (int P [], int N[], int size) in C++, to copy the elements of array P into array N in such a way that all the negative elements of P appear in the beginning of N , followed by all the positive elements, followed by all the zeros maintain their respective orders in array P

 e.g If the contents of array P are: 8, -24, 5,0,-11,-7, 6, 0

The contents of array N should be: -24,-11,-7,8,5,6,0,0

11. Write definition for a function TOPBOTTOM(int M[][5],int N,int M) in C++,

which finds and displays sum of the values in topmost row and sum of the values in

bottommost row of a matrix M (Assuming the parameter N represents number of

Row and the parameter M represents number of Columns).

Also write main program to input the array and invoke TOPBOTTOM() function

12.Write a menu driven program to input a 2 dimension A[ ][ ] array of size n X m and

1. display the middle row and middle column.

2. find the sun of all alternate elements of the array

3. find the sum of all elements in the upper triangle.

4. Exit

13. Write a menu driven program to input a matrix of size N x M and

1. Interchange the second row with second last row

2. Print the lower triangle elements.

3. Add 10 to all middle column elements which are having 3 as last digit .

4. Exit

WRITE ALL THE ABOVE PROGRAMS IN YOUR RECORD BOOK.

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