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**Foundation Course – Assignment 2**

*Deadline: 30 June 2022*

**Question: 1**

Write a program to find the largest and the second largest number in the array.

**Question: 2**

Write a program that places all the zeros in an array / list at the end of the list.

**Example:**

If A = {1,0,2,0,5,7,0,} then the output should be A = {1,2,5,7,0,0,0}

**Question: 3**

Write a program to delete the duplicates from the array.

**Example:**

If A = {1,1,6,7,8,5,8} then output should be A = {1,6,7,8,5}

**Question: 4**

Write a program to delete the prime numbers in the array.

**Example:**

If A = {2,3,6,7,12,13,15} then output should be A = {6,12,15}

**Question: 5**

Write a program that takes a pre-defined list of integers and counts the frequency of each element in it.

**Question: 6**

Write a program that reads ***N*** integers, determines how many odd and even values have been read and compute the total and average of input values.

**Sample Output:**

Enter N: 4

Enter 4 values : 1,2,6,3

The number of even numbers: 3

The number of odd numbers: 1

Total is: 12

Average is: 3

**Question: 7**

Write a program that must take the whole string from the main and return the number of consonants appears in the string. Handle both upper and lower case letters. For example if the input string is “CUREMD” then the output should be 4.

**Question: 8**

Write a program that replaces the contents of each cell with the subtraction of the contents of all the cells in the original array from the left end to the cell in question.

**Example:**

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5.8 | 2.6 | 9.1 | 3.4 | 7.0 |

**Output:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5.8 | 3.2 | -5.9 | -9.3 | -16.3 |

**Question: 9**

Suppose A, B, C are arrays of integers of size M, N and M+N respectively.

* The number in array A appear in descending order
* while the numbers in array B appear in ascending order.

Write a user program to produce third array C by emerging arrays A and B in descending order.

**Question: 10**

Write a program to separate positive and negative numbers of an array of integers. Put all positive numbers first, and then negative numbers

**Question: 11**

Write a program to swap first and last element of an integer 1-d array.

**Question: 12**

Write a function that copies one c-string to another c-string, by replacing all the “ies” parts of the string by just an ‘y’. So if the first string is “Who worries about curries”, the second string made by the function should “Who worry about curry”.