You only have to do one of the below tasks whichever you like although both questions carry different marks as indicated.

Coding Task
Task-1 (3 marks)
Take an array from the user and perform the following operations,
1) Find max , min, average (up to 2 decimal places) of the numbers present in even indices
2) Find no of primes, no of twin primes present in odd indices
INPUT
1) N length of array
2) Integer Array
SAMPLE INPUT
5
1
3
4
5
3
SAMPLE OUTPUT
MAX = 4
MIN = 1
AVG = 2.66
NO OF PRIMES = 2
NO OF TWIN PRIMES = 1
TASK-2(PROGRAMMING)-max. marks (6 marks)
Given an array of integers, every element appears twice except for one. Find that single one.
Coding is not just writing Brute-force but to apply your innovative minds to optimize the code. So

If code is working by any means- 3 marks. (base)

here we go.

If you use input array as read only and do not manipulate-(+1) mark.

Could you implement it without using extra memory? -(+1) mark.

Your algorithm has a linear runtime complexity? – (+1) mark.

(For runtime complexity- refer Internet)

Hint- The game of 0 1 may come in picture.

Example:

Input: [1 2 2 3 1]

Output: 3

NOTE: -

- 1) Any coding language is permitted!
- 2) Submit your file via BITS Mail before the deadline.
- 3) Just be original and innovative!

Team Programming (IEEE BPSC)