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Daffodil International University
Faculty of Science & Information Technology
Department of Software Engineering
Final Lab Examination, Summer 2025
Course Code: SE 121; Course Title: Structured Programming Lab
Sections: 44-A1, Set - B

Time: 1:00 Hour **Marks: 40**

Task 1 (Filename: A1_SetB_StudentID_Task1.c):
Write a C program that takes N real (float) numbers as input (where $N \leq 20$).

- Stores them in an array and prints the numbers in reverse order up to 2 (two) decimal places.
- Prints the minimum value in the array along with its position (index) where it occurs.

Task 2 (Filename: A1_SetB_StudentID_Task2.c):
Write a C program that reads an NxN matrix (where N = 5), stores the matrix in a two dimentional array, and finally calculates the sum of the values in the last column. For example:

	0	1	2	3	4
0	1	2	3	4	5
1	6	7	8	9	10
2	11	12	13	14	15
3	16	17	18	19	20
4	21	22	23	24	25

The sum of the values in the last column is 75.

Task 3 (Filename: A1_SetB_StudentID_Task3.c):
Write a C program that reads a string (along with space in any position) from the user and prints the string in reverse order.

Task 4 (Filename: A1_SetB_StudentID_Task4.c):
Write a C program that:

- Defines the following function:
  - int isPrime(int n) → returns 1 if n is prime, otherwise 0.
- In the main function, takes 5 integers less than 100 as input.
- For each integer:
  - If it is prime, prints "X is a prime number". Otherwise, prints that "X is not a prime number". Replace X with the actual number.

Open a Microsoft Word file and insert all the screenshots of your solutions in this file. Then, save the file as Lab_Final_A1_StudentID.docx and *upload this file on BLC (Section: **Final Lab Exam**) until your proctor is available in the lab.*

Bonus: Write an email (by 10 AM) to your course teacher (email: azamkhan.swe@diu.edu.bd) describing how you have done in this exam, along with the solution files to questions 1 to 4 as attachments. After sending the mail, remove the files you have prepared till now from the hard disk.

~~ BEST LUCK ~~