Dept. of CSE, BUBT
Fall 2018-19| Lab Final
CSE 112| Structured Programming Language Lab
Set C| Time: 1 hour 30 minutes
[Answer any three questions]

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1. Write a C program to print leap years from 1901 to 2019.
2. Write a program in C to print the number in a range using function which are both Fibonacci and even.

   Sample I/O:
   Lower limit: 0
   Upper limit: 10
   0,2,8
3. Write a C program to check whether a string is palindrome or not.
4. Print following pattern in C (using loop):

```
    *
   * *
  * * *
 * * * *
```

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Set B| Time: 1 hour 30 minutes
[Answer any three questions]

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1. Write a C program to check whether a number is palindrome or not.
2. Write a program in C to find the 2nd largest element of an array.
3. Write a C program to writing and reading from a file and sort them. Then again write the sorted data in to file again.
4. Print following pattern in C (using loop):

```
    1
  1 2
1 2 3
1 2 3 4
```

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[Answer any three questions]

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1. Write a C program to find the summation of the prime numbers in a given range.
2. Write a C program to convert Upper case letter to lower case of a string.
3. Write a C program to calculate the square root of the elements of an array and keep it in another array.
4. Write a C program to Find the frequency of the elements of an array.

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Set D| Time: 1 hour 30 minutes
[Answer any three questions]

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1. Write a C program to find the number of vowel and consonant in a given string.
2. Write a C program to perform the multiplication of two 2D matrix.
3. Write a C program to calculate the average of the odd index elements of an array.
4. Write a C program to take input an array and calculate the distance between two alongside elements.

   Sample I/O:
   5, 4, 3, 2, 1, 6, 2
   The distances is
   1,1,1,1,5,4