

LAB 1

REVISIT

Note: Write all programs in C/C++ using function concept.

1. WAP to find out largest element of an array.
2. WAP to search an element in array.
3. WAP to check whether the number is prime or not.
4. WAP to calculate x^y where x and y are two integer numbers entered by the user. [do not use pow() function]
5. WAP to replace a character by another character in a string. Take both the choices from the user.
6. WAP to find the reverse of given string.
7. WAP to sort the array and ask the choice from user for ascending/descending.
8. WAP to find a word in given statement.
9. WAP to concatenate two strings using pointer.
10. WAP to create a dynamic array of user desired size and search an element in that array.

Advanced Problems:

11. WAP to calculate difference between two time periods using the C structures.

Sample output:

```
Enter start time:
Enter hours, minutes and seconds respectively:8
12
15

Enter stop time:
Enter hours, minutes and seconds respectively: 12
34
55

TIME DIFFERENCE: 12:34:55 - 8:12:15 = 4:22:40
```

12. WAP to add two complex numbers by passing structure to a function.

Sample output:

For 1st complex number

Enter real and imaginary part respectively: 2.3
4.5

For 2nd complex number

Enter real and imaginary part respectively: 3.4
5

Sum = $5.7 + 9.5i$