

Assignment

1. Write a C program which read 10 integers from user and print all pair whose sum is 70.
2. Write a C program to read marks of 50 students ranged between 0 and 20 and find the frequency of each mark.
3. Write a C program to calculate mean, variance and standard deviation of sorted n floating point values.
4. Write a C program which reads a list of N numbers and finds the largest and second largest of them.
5. Write a C program to perform linear search in an array of n elements. Print string "found" when value is found at first time and print "Not found" when value is not present in the array.
6. Write C programs to find sum of n terms of following series.
 - (a) 1,2,4,7,11,..... n terms
 - (b) 0, 1, 1, 2, 3, 5, 8,..... n terms(Fibonacci series)
 - (c) $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$,
 - (d) e^x
 - (e) $\sin(x)$
 - (f) $\cos(x)$
7. Write a C program to convert decimal no. into base-5 no.
8. Write C programs to print following patterns using nested loops.

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1
12
123
1234
12345|
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```
1
123
12345
1234567
123456789
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