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1BM19CS155

Date 10
Page 1) WAP to find CrCD of two numbers using
Recursion

include < stdio h?

int hef (int onl, int m2)

E ecturn hef (m2, n10/.2);

else

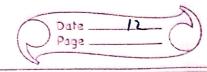
return n1;

int main () int ul, m2; fruit (" Enter two positive integers: 12"); scarf ("'/' d'/'d'', & n', & n'); heint ("6() of 1/1 d. \$ 1/1 d is 1/1 d Enfected Input / Output:

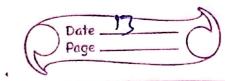
Enter two positive integers:

13
91 6, (D of 13 and 91 is 13

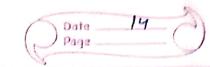
Date K D'abrite Fibonacci series of a given no # include a stdio. 63 ent of Cint on E if (n = = 0) return 0; else if (n = = 1) return! return f(m-1) + f(m-1); int main () { int i, m, m = 0; print (" Enter " "); scanf ("') d", &n); prints (") de filonaici series is: 12", a Jor (i=); i == n; i++) { freint (") ('/ d) = / d In", i, j (m)); return 0-, Enfected Input/ Quitput 3 fibonacci series is: 1(3) = 1



@ Find portorial of a no. using Recursion # include = stdio. h > unsigned long long int scale (int m) ? if (n = = 0) return !; return (n * calc (m - 1)); int main () & unsigned long long int f; prints (" Ester a number: "); scanf (" ./. d", &n); f= esle (m) huint ("Factorial of) d is ! Illu", n, f); Expected Expect / Output: Enter a number: 5 tactorial of 5 is: 120 @ WAP for binary search using Recursion # include = stdio. h > int search (int m, int a ton J, int s, inte, if (e>= s) {



return Search (m, a, m+1, e, k); int n, i, n, g; prints (" Enter no. of elemente in array: scanf (".).d", & m); int a [n]; frints ("Enter elements of array: 1,"); for (j=0; j<m; j++) scaref ("./.d", & s(i]); frints (" Exter element to be searched: ") scanf (" . d", dig). Search (m, a, 0, m-1, g);



printy ("Element not Journd");

else {

printy ("Element is present and its

position is : / d", n + 1);
} return O; Expected Input | Autput !
Enter the number of elements in array: 3

Enter clements: Enter element to be searched: 63
Element is present & its position is: 3 DOWAP for Tower of Manoi.

include = stolio. h?

void towers (int n, whor s, what t, what d)

{ print (" Move disk 1 from / e to / cin",

retarn; if (m = = 1) {

