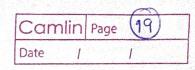


| > | Recursion: It is a process fra which a function calls itself directly or indirectly is called recursi |
|-------------|---|
| <u> </u> | sum of M numbers: |
| | int sumofn (int n) |
| | if (nezi) Bare care. |
| 10 | return 1, return n + sumof N (n-1)? Z |
| <u> </u> | calculate nº (n pouver p). |
| 18 | int power (int n, int p). |
| | if (p==0) Base case. |
| 20 | return n x power (n, p-1); |
| (3) | factorial of no |
| | int factorial (int n) |



if (n = = 0) | Base case return 1; } return n x factorical (n-1);

4 fibonacci at no

int fibo (int n)

if (n < = 01) } Base case.

return fibo (n-1) + fibo (n-2);

(S)15 check if an array is sorted:

bood is sorted (int Arr[], int n)

if (neel) Bax cose return inte;

return (Arr[0] < Arr[1] && issorted (Arrt] !n-1);

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print numbers till N (increasing order): void print Nincreasing (int n) if (n==0) base care printNincreasing (n=1);
coutex n; Depring numers till N (decreasing order): void point N Decreasing (int n) if (n==0) Burcase Cout II n ? return print N Decreeving (n=1); (8) First Occurrence of an element in an Arrays int-firstoccurence (int Aroll, n, i, K).

i-((10000) (2 = 00)

if (Ali] == K)

return ?

} return firstoccurence (Arr, n, itl, K);

9 Last occurence:

int lout occurence (int Arri), int n, inti,

5

if (1== n)

return =1;

Ind vest Array = lastoccurence (Formiti, K)

if (rest Array 1 = -1)

of (Arti] == K)

return i

return -1;

9

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