Lab Assignment 02

Marks

For each of the following problems write C++ program by using both memoization and tabulation methods

Problem - 1

➔ Fibonacci Number **20**

Problem - 2

➔ FARIDA **20**

Problem - 3

➔ Boredom **20**

Problem - 4

➔ N-th Tribonacci Number **20**

Problem - 5

20

➔ You are given an integer n.You can perform any of the following operations on it as many times you want -

- Subtract 1 from it
- If it is divisible by 2 divide by 2
- If it is divisible by 3 divide by 3

Find the minimum number of operations to make n=1

Constraints -

1<=n<=10^5

Output -

Print a single integer,the minimum number of operations to make n=1

Sample Input-	**Sample Output-**
7	3
11	4

Explanation-

When n = 7,
By using 3 operations we can go from 7 to 1.
>> 1st step -> subtract 1 from 7 then it became 6
>> 2nd step -> 6 is divisible by 3 hence we can divide it by 3 and it became 2
>> 3rd step -> 2 is divisible by 2 hence we can divide it by 2 and it became 1