# **Assignment 1 | 5th August 2021**

### **For any doubts regarding the assignment, ask questions in the** [**Master Data Structure and Algorithms with C++**](https://community.letsupgrade.in/group/ldacaug121) **Group in the Community.**

### **Submit assignments in** [**Your Classroom**](https://letsupgrade.in/my-programs)**.**

## **Question 1**

What is the time complexity T(n) for the following code snippet?

a = 1

b = 1

while(b <= n)

{

a += 1

b += 1

cout<<"Hi";

}

**Solution-**

Time Complexity T(n)= O(n)

## **Question 2**

Write the output for the following recursive code snippet for n = 3:

void fun(int n)

{

if(n > 0)

{

cout<<n:

fun(n - 1);

cout<<n;

}

}

**Solution-**

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