**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";

}

ANSWER =

As given here (b += 1) => O(n)

As given in lecture yesterday, (b += a) => O(n^2)

**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;

    }

}

ANSWER =

3

2

1

3