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 - Since the while loop runs for n times that means it's time complexity is 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;

}

}

Answer - output is - 3 2 1 1 2 3