**TIME COMPLEXITY**

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 :

T(n) = O(√2n)

If n= 100 , it executes for 13 times

Which is (√2 \*100) = 13

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 :

321123