Master Data Structure and Algorithms with C++: Let's Upgrade Assignment 1:

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";
}</pre>
Solution:
```

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:

```
321123
...Program finished with exit code 0
Press ENTER to exit console.
```