Data structures and algorithms with c++:

Assignment 1:

1. What is the time complexity T(n)?

```
a=1, b=1
while(b<=n)
{
    a+=1
    b+=1
    cout("hi");
}
```

Solution: T(n)=O(n)

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:

3 2 1 1 2 3