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