1) Consider the following recursive method:

```
public static int calc (int a, int b)
  {
    if (a>b)
      return -1;
      else
      {
        if (a==b) return 2*a;
          else return 2*a + calc (a+1, b);
      }
  }
```

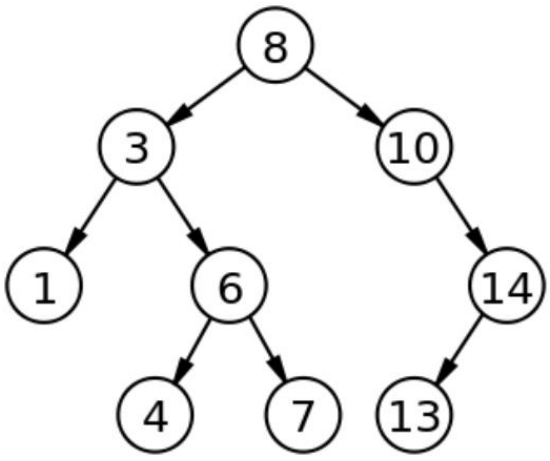
a) What is a recursive method?

b) Fill in this trace table for the function call calc (3, 6) until the method ends.

a	b	returns
3	6	

c) Give one advantage and one disadvantage of recursion compared to iteration.

2) Consider this binary search tree:



a) What is a binary search tree? [2 marks]

b) Insert 9 in the tree. [2 marks]

c) Now delete 10 from the tree. [3 marks]