

Lab 5

Q1. Given the following recursion function, what does `power(a,4)` return? Also, illustrate your answer using stack.

```
static int power(int a, int n) {  
    if (n == 0) return 1;  
    else return a*power(a,n-1);}
```

Q2. Given the following recursion function, what does `mystery(5)` return? Also, illustrate your answer using stack.

```
public int mystery(int b)  
{  
    if(b==0)  
        return 0;  
    if(b % 2==0)  
        return mystery(b-1) + 3;  
    else  
        return mystery (b-1) + 2;  
}
```