

Assignment 2

Instructions: Print this document and complete it by hand. Answer the questions below.

Your name:

Answer the following questions for both mystery methods.

```
public void mystery1(int[] arr, int i) {  
    if (i >= 0){  
        System.out.println(arr[i]);  
        mystery1(arr, i-1);  
    }  
}
```

Write the console output from calling `mystery1(arr, 5)` when `arr={1, 2, 3, 4, 5, 6}`

How many times is `mystery1` invoked when `mystery1(arr, 5)` is called?

Explain in your own words the purpose of this method.

```
public int mystery2(int x) {  
    if(x <= 5) {  
        return 12;  
    }  
    return mystery2(x-2) * mystery2(x-1);  
}
```

What does the call `mystery2(7)` return? Show your work.

How many times is `mystery2` invoked when `mystery2(7)` is called?