

COMP4403 Study Notes

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Question One

```
public void f(int arr[]) {  
    int total=0;  
    for (int i=0;i<arr.length;++i) {  
        total+=arr[i];  
        i++;  
    }  
    System.out.println(total);  
}
```

What would be output to the terminal if f was called with the array {1,2,3,3,5,6,7}?

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public void f(int arr[]) {  
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Note: Terminal means screen/console/output window

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    System.out.println(total);  
}
```

What would be output to the terminal if f was called with the array {1,2,3,3,5,6,7}?

Note that **i** is incremented in both the afterthought and loop body.

$$1 + 3 + 5 + 7 = 5$$

Question Two

```
public int g(int v) {  
    if (v>5) {  
        return 0;  
    }  
    if (v<=0) {  
        return Math.abs(v)+g(v+2);  
    }  
    return (v-1)+g(v+1);  
}
```

What would be returned by the following calls? $g(2)$, $g(0)$, $g(-5)$

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Recursive Desk Check - Can you do it?

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Recursive Desk Check - Can you do it?

Hint: Sometimes you can use your other working to come to a solution quicker