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);
}</pre>
```

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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        i++;
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```

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);
}</pre>
```

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