COMP4403 Study Notes

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1   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}?

> **Note:** Terminal means screen/console/output window

> Note that **i** is incremented in both the afterthought and loop body.
> $1 + 3 + 5 + 7 = 5$

2   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)

> **Recursive Desk Check** - Can you do it?

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