

CS 314 EXAM ONE REVIEW — $T(N)$ SHORT ANSWER

1. What is the $T(N)$ of method a? ($N = \text{data.length}$)

```
public static int a(int[] data){
    int count = 0;
    for(int i = 2; i < data.length - 2; i++){
        for(int j = i - 2; j < i + 2; j++){
            count += data[j];
        }
    }
    return count;
}
```

2. What is the $T(N)$ of method b? ($N = \text{data.length}$, assume N is *even*)

```
public static int b(int[] data){
    int i = 0;
    int j = data.length - 1;
    while(i < j){
        int temp = data[i];
        data[i] = data[j];
        data[j] = temp;
        i++;
        j--;
    }
    return data[i];
}
```