Name:	

Consider the following method, increment(int[] a):

```
void increment(int[] a) {
int i = 0;
while (i < a.length) {
    a[i] = a[i] + 1;
    i = i + 1;
}
</pre>
```

Question 1. Suppose the array a is initialized to [0, 0, 0, 0]. If two threads concurrently call increment(a), what are *all* possible values of a when the threads terminate?

Note that only the array a is shared between the threads. The variable i is thread-local, meaning that each thread has its own variable i.

Question 2. Now suppose k threads concurrently call increment(a). What are the possible values of a when the threads terminate?