## True/False

- 1. In the base case, a recursive method calls itself.
- 2. Generally, merge sort is faster than selection sort.
- 3. Merge sort is faster if the data is already sorted.
- 4. The following method returns n!

```
public int factorial(int n) {
    if(n==0) return 0;
    return n*factorial(n-1);
}
```