Week 2 Quiz

Q1.

```
What is the big-O running time for an algorithm that performs 5\*(\log n) + 2000\*(n) - 15\*(n\log n) + .001\*(n^2) operations?

A. O(n)

B. O(nlogn)

C. O(2^n)

D. O(n^2)
```

Q2.

What is the big-O running time of the following function?

Q3.

After the second pass of the selection sort algorithm, a list looks like this: [5, 19, 55, 21, 88, 81, 59]. After the *third* pass of selection sort, what will the list look like?

```
A. [5, 19, 21, 55, 88, 81, 59]
B. [5, 19, 55, 59, 21, 88, 81]
C. [5, 19, 21, 55, 59, 81, 88]
D. [55, 5, 19, 21, 88, 81, 59]
```