If 1 item takes 1 second to process, 100 items take 1,267,650,600,228,229,401,496,703,205,376 (over 1 nonillion) seconds to process

O(2N)

Code Example

This code creates a fibonacci sequence, and returns the value at the nth value of the sequence. The code that makes this a Power of 2 Complexity is line 4 of the fibonacci function - note the fibonacci is called twice.

```
function fibonacci(n) {
   return n <= 1 ? 0
   | : n <= 2 ? 1
   | : fibonacci(n - 1) + fibonacci(n - 2);
}</pre>
```