O(2^N)

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.

```
1  function fibonacci(n) {
2      return n <= 1 ? 0
3             : n <= 2 ? 1
4             : fibonacci(n - 1) + fibonacci(n - 2);
5  }
6
```

O(N!)

Factorial Complexity