











































Unit Testing

- Unit test = test of a single class
- Design test cases during implementation
- Run tests after every implementation change
- When you find a bug, add a test case that catches it

















Factorial of N N!

N * N-1 * N-2 * ..

```
31
```

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







```
public static long fib(int n) {
    if (n < 1) {
        return n;
    }
    else {
        return fib(n-1) + fib(n-2);
    }
}</pre>
```





So how would we figure out fib?















Next time

- Read chapter 4-4.6
- Start hw2