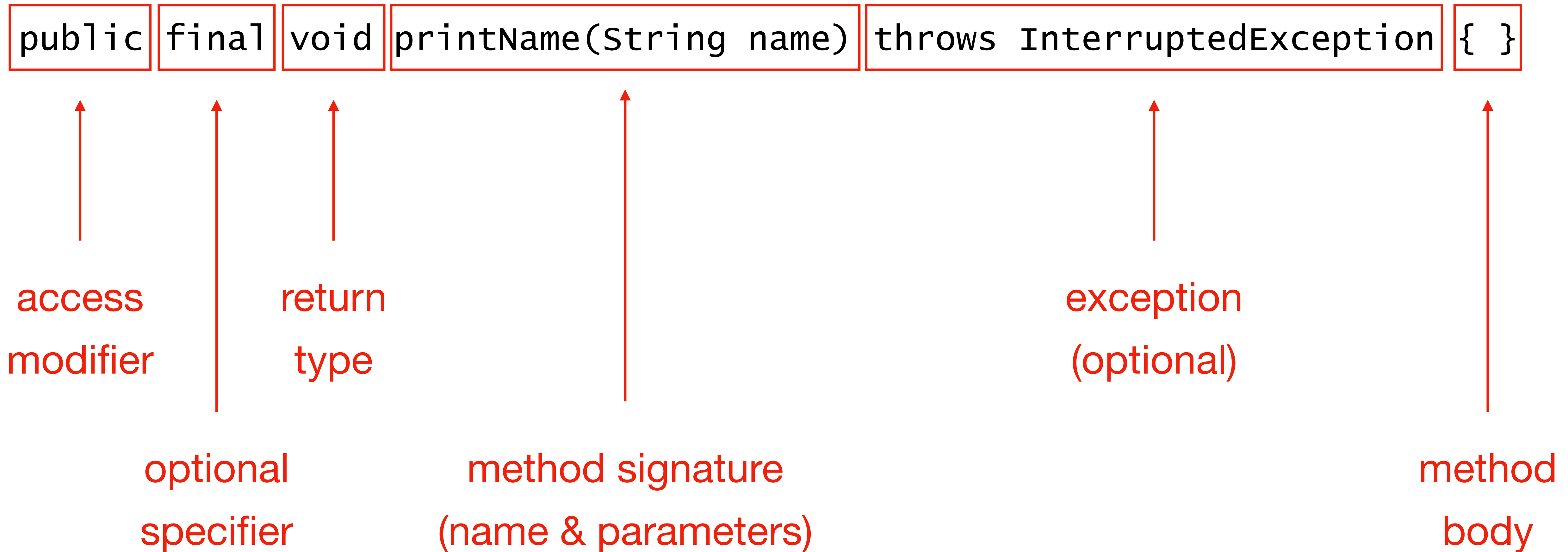


# Methods

## Defining Methods

# The Syntax



// method signature must follow the return type

```
public void final printName();
```

=> DOES NOT COMPILE

// return type can be any primitive or object

```
public int addNumbers (int a, int b) {
```

```
    return a + b;
```

```
}
```

```
System.out.println(addNumbers(2, 3));
```

=> 5

```
public int addNumbers (int a, int b) {
```

```
    long c = 1L;
```

```
// return type must be consistent  
public int addNumbers (int a, int b) {  
    long c = 1L;  
    return c * (a + b);  
}
```

=> DOES NOT COMPILE

# To keep in mind...

- method name is Java identifier (same rules as variable names)
- parameters in parameter list are separated by comma
- after throws there can be more than one exception, separated by comma
- method must have a body { }, even if it is empty

```
public void doNothing() {}    // OK
```