

# Methods

## Variable Arguments (Varargs)

# Variable Arguments (Varargs)

- method can accept any number of parameters of the same type
- two rules to keep in mind:
  1. a method can have at most one varargs argument
  2. varargs argument must be the last parameter in the parameter list

```
// simple example
```

```
public void greet (String greeting, String... names) {  
    for (String name : names) {  
        System.out.println(greeting + ", " + name + "!");  
    }  
}
```

```
greet("Hello", "John", "George", "Luke");
```

```
Hello, John!  
Hello, George!  
Hello, Luke!
```

```
// you can pass an array as varargs
```

```
String[] allNames = {"Peter", "Paul"};  
greet("Hello", allNames);
```

```
Hello, Peter!  
Hello, Paul!
```

```
// you cannot pass an anonymous array (!)
```

```
greet("Hello", {"John", "George", "Luke"}); does not compile
```

```
greet("Hello", new String[] {"John", "George", "Luke"}); ok
```

```
// you can use varargs can be used in the main() method
```

```
public static void main(String... args) { }
```