

```
/*@ requires 0 < arr.length;  
   @ ensures this.a == arr;  @*/  
public void init(Object[] arr);
```

The diagram illustrates the decomposition of a Java method signature into its signature and contract parts. At the top, a rectangular box contains the full signature with Javadoc-style annotations: `/*@ requires 0 < arr.length; @ ensures this.a == arr; @*/ public void init(Object[] arr);`. Two arrows originate from this box: a brown arrow pointing down to a brown-bordered rounded rectangle on the left, and a purple arrow pointing down to a purple-bordered rounded rectangle on the right. At the bottom, a rectangular box contains the method body: `public void init(Object[] arr) { this.a = arr; }`. Two arrows point up from this box: a brown arrow pointing up to the brown-bordered rounded rectangle, and a purple arrow pointing up to the purple-bordered rounded rectangle.

```
public void init(Object[] arr);
```

```
requires 0 < arr.length;  
ensures this.a == arr;
```

```
public void init(Object[] arr)  
{ this.a = arr; }
```