Ex. Factorial.java

Ex. Overload1.java

Ex. Overload2.java
Chapter 5: Arrays & Containers

An array is a set of memory locations all storing the same type of data.

Addresses in Java:

V.M.

Array

Object

List

Indices

0 1 2 3

100 104 108 112
To declare an array:

```
int[] list;
```

Data variable name

To create an array object:

```
list = new int[10];
```

Array object

Reference variable
Combine declaration & allocation

```java
int[] list = new int[10];
```

Initialize:

```java
list[0] = 15;
```
\[ \frac{1}{s+1} = -2 \]

\[ |s^2 + 3s + \lambda| = 1 \]