

Lecture 18 Arrays of Objects



Review II

<datatype> [] arrayName; int[] data;

- Array declarations reserve a single space of memory
- [] specifies space has array reference
- <datatype> specifies what it is a reference to



Review III

arrayName = new <datatype> [n]; data = new int [10];

- new requests space from OS
- n specifies how much space
- "Construction" returns a reference
 Reference (arrow) is stored in arrayName



Arrays of Objects II

- The constructor "new AnInt[2]" only allocates the array space
- Array memory locations are initialized like all objects
 - 0 for numbers
 - false for booleans
 - null for objects



Questions?

Example

 Create an array of the 10 smallest Circles where each Circle is centred on the x-axis and passes through the origin

```
public class Circle
```

public Circle (Point centre, int radius) {}



Example II

- One Class
 - DigitCode
- Write a code fragment

// DigitCode[] codes;

Readings and Assignments

- Text sections (5th or 6th edition)
 7.3, 7.4
- Text sections (7th edition)
 - 8.3, 8.4
- Lab Assignment 5
 - Determine flight costs
 - Method returns an array of cities
 - >Use cities to build an array of costs