

CSE 11

Accelerated Intro to Programming

Lecture 18

Greg Miranda, Summer 1 2021

This lecture is being recorded

Announcements

- Lecture Quiz 9 due Thursday @ 11:59pm
- PA9 due Thursday @ 11:59pm
 - ➔ No resubmission
- PA5 resubmission due Wednesday @ 11:59pm
- PA6, PA7, PA8 resubmission due Friday
 - No tutor hours available on Friday
- Final Exam ~~2~~
- ➔ Friday – releasing at 12am
 - Due Saturday @ 11:59pm

Datatypes

- Whole numbers
 - int – 32 bit
 - long – 64 bit
 - short – 16 bit
- Floating point numbers
 - float – 32 bit
 - double – 64 bit
- boolean
- char
- byte

Equality

Equality

- ==
- checkExpect(_____ , _____)
- .equals(_____)

More Equality

- `Arrays.equals(____)`

instanceof

- <name> instanceof <type>
 - Where <type> could be a class or interface
- What instanceof does
 - is it takes a value and a class and it checks if that values class is below the given class in the class hierarchy
 - returns true if it is
 - returns false if it's not

Casting

```
class A {}
```

```
class C extends A {}
```

```
A aValue = new C();
```

```
C cValue = (C) aValue;
```


toString()

- It's often useful for us to define our own toString method on classes that we make if we want to be able to see their output
- The default toString isn't really helpful as it only shows the name of the class with the reference in it
- It's usually really helpful to be able to print out the contents of a class

Access Modifiers

- public
- <no modifier>
 - default
- private
- protected