CSE 11 Accelerated Intro to Programming Discussion Section 9

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Logistics

- PA8 due today at 11:59PM
- PA9 released due next Thursday No resubmission
- Exam2
 - Thursday 9pm Sunday 11:59pm

Exceptions

- Checked exceptions
 - Must be handled in some way (try/catch, throws clause)
 - Example: IOException

```
Class FileHelper {
 static String[] getLines(String path) {
  try 1
     return Files.readAllLines(Paths.get(path)).toArray(String[]::new);
   catch(IOException e) {
        System.err.println("Error reading file");
        return new String[]{"Error reading file"};
```

- - ArithmeticException
 - IndexOutofBoundsException
 - IllegalArgumentException
 - NullPointerException

• Unchecked exceptions > something is normal with your when with your when the something is normal with your when you will not you will not you when you when you when you when you will not you when you when you when you will not you when you will not you when you when you when you will not you when you will not you will

```
int b;
int c = a/b;
```

Primitive types

```
bits 64 bits 16 bits 64 bits 32 bits 1 bit 8 bits 8 bits
int, long, short, double, float, boolean, char, byte
Limited range and/or limited precision T/e
Can use = to check for equality
int a = 1;
int b = 1;
boolean c = a == b; // true
```

Non-primitive types

```
• String, Point, TextTweet, ImageQuery, Array, ArrayList
                                         a -> "hello"
   • == does not work as expected
                                         b -> "hello"

String a = "hello";

  String b = "hhello".substring(1);
  boolean c = a == b; // ??? false
                                                equals method

    Instead, use equals method to check equality

   String a = "hello";
   String b = "hhello".substring(1);
   boolean c = a.equals(b); // ??? twe

    Special case: Arrays

   int[] a = \{1, 2, 3\};
   int[] b = \{1, 2, 3\}; same as a==b
   boolean c = a.equals(b); // ??? false
   boolean d = Arrays.equals(a, b); // ??? twe
                                      // import java.util. Arrays;
```

Exam2

photo id PID <5 min

- Similar to Exam1 (programming + video)
- · Cumulative -> Contents before exam1 might be covered
- Start early
- Read instructions carefully
- Follow instructions closely

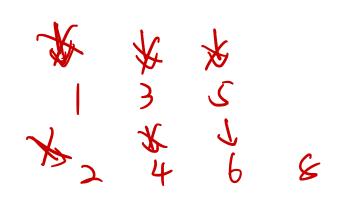
PA9

" LSE"

"CSE 11 is great"

"No, CSE 11 is hand"

" I dove CSZ"



Thanks!