CSCI305 HW2

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0.1 Operational Semantics

0.2 Scoping

Mark 1: Definition 1: a Definition 2: b,c,d

Mark 2: Definition 1: a Definition 2: b

Definition 3: c,d,e

Mark 3: Definition 1: a Definition 2: b.c.d

Mark 4:

Definition 1: a,b,c

0.3 Conditional Expressions

k will equal 3 at the end of the loop Because of short-circuit evaluation, in the line:

```
if (i % 2 == 0 && foo() % 2 == 0)
```

foo() will not be executed if i is odd, thus causing j to not be called. This makes k to not increment as frequently.

0.4 Array Representations

0.5 Primitive Data Types

- 1. Primitives are not mutable, meaning that you can reassign the variable. This is a really frustrating problem to deal with especially in interpreted languages.
- 2. Undoes polymorphism. In other words, int is required except in special cases, Integer is requested
- 3. Floating types cannot be completely accurate.

0.6 Loops

0.7 Bibliography

Alpert, S. R. (1998). Primitive Types Considered Harmful [Abstract]. Java Report, 3, 11. Retrieved February 23, 2017, from https://www.research.ibm.com/people/a/alpert/ptch/ptch.htm