CompSci 94 Arrays, Loops with Arrays October 6, 2020



Prof. Susan Rodger

Announcements

• QZ13 and Videos for next time

Exam 1... on Gradescope

- Use YOURNETID@duke.edu for email
- Solutions posted request regrades til Oct 9!
 - Ask for regrade on gradescope
- Try working problem you missed first
 - Then look at solution

- Once you think you understand
 - Get blank sheet of paper try again
- Understand all solutions

How and Where does one create an array?

Arrays http://bit.ly/94f20-1006-1

Arrays

• What is an array?

• Why create an array?

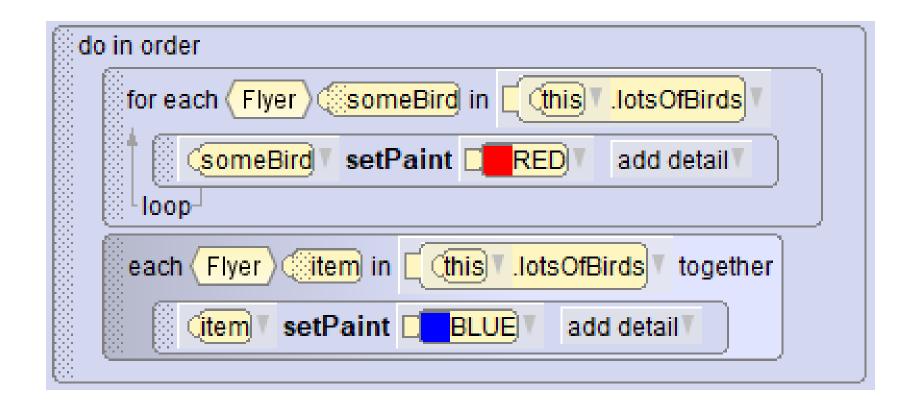
• Can an object be in more than one array?

What is the order the birds do something here?

lotsOfBirds (new Flyer[] { (this.phoenix), (this.chicken), (this.flamingo), (this.penguin), (this.ostrich) }

```
for each
      for each (Flyer) oneBird in this .lotsOfBirds
           oneBird 🔻
                     spreadWings add detail
                     foldWings add detail
           oneBird 🔻
      #Move penguin between phoenix and chicken
       (this.penguin)▼ move □RIGHT)▼, ≦2.3)▼
                                              add detail
      for each ( Flyer ) oneBird in [ (this) I lotsOfBirds |
           oneBird V
                     spreadWings add detail
                     foldWings add detail
           oneBird 🔻
```

What does this code do?



What does this code do?

```
TextString[] > greetings <= [new TextString[] { /[How are you today?], /[Welcome], /[Nice to see you.] }
do in order
     for each (TextString) √ saying in [ (this) v.greetings v
          (this.phoenix) say /saying add detail
      loop<sup>⊥</sup>
     each (TextString) √ phrase in [ (this) v.greetings v together
          (this.penguin ▼ say Sphrase ▼ add detail ▼
```

What does this code do?

```
for each (Flyer) (someBird2 in this .lotsOfBirds)

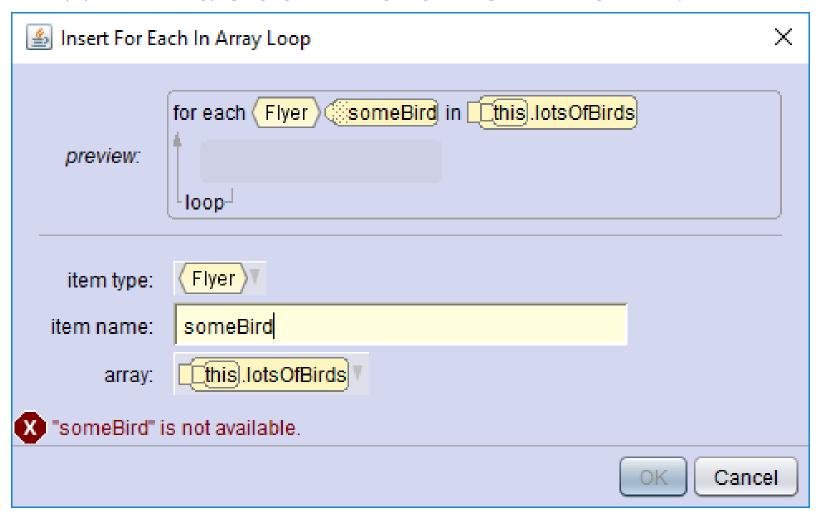
for each (TextString) (somePhrase in this .greetings)

someBird2 say (somePhrase) add detail

loop

loop
```

What does this error mean?





Class Today

Iterating through Arrays



