CompSci 94
Arrays, Loops with Arrays
October 17, 2019

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Arrays

• What is an array?

• Why create an array?

• Can an object be in more than one array?
How and Where does one create an array?
What is the order the birds do something here?

- Move their wings in this order: Phoenix, chicken, flamingo, penguin, ostrich, then same order again.

```plaintext
new Flyer[] { this.phoenix, this.chicken, this.flamingo, this.penguin, this.ostrich }
```
What does this code do?
What does this code do?

• Phoenix says greetings one at a time
• Then Penguin says the greetings all at once
What does this code do?

Each bird in the array `lotsOfBirds`, one at a time, says the phrases in the array `greetings`, one at a time.
What does this error mean?

```
for each Flyer someBird in this.lotsOfBirds

preview:

loop

item type: Flyer
item name: someBird
array: this.lotsOfBirds

"someBird" is not available.
```
BE CAREFUL!

• When naming loop variable

• Don’t CUT and PASTE ARRAY LOOP code
BE CAREFUL!

• When naming loop variable
  – Don’t use the name of anything else in your program.
    • Don’t use penguin, etc.
    • Use someBird, someBird2, someBird3

• Don’t CUT and PASTE ARRAY LOOP code
  – This can lead to using a variable from the wrong loop. Your Alice code will freeze!
Announcements

• QZ13 and Videos for next time
Class Today

- Iterating through Arrays