CompSci 94
Random Numbers
September 27, 2022

I want to jump a random amount

Prof. Susan Rodger

Announcements

- Exam 1 is Oct 4
  - See old Exam's on course website – resources tab
- Review on Thursday
- Assignment 3 out today –Oct 18 due
  - Can do some as practice for exam! Not required
- NO QZ for Thursday
  - QZ09 due Thursday Oct 6– 8:30am

- Don't get behind, be sure to check your grades on Sakai for Classwork

Q1 Constant Variable

- What is a constant variable?

- How do you create a constant variable in Alice?
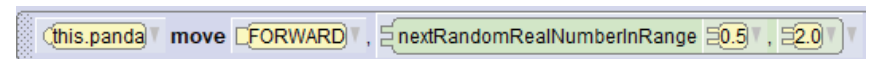
- How do you use a constant variable?

Q2 Random Numbers

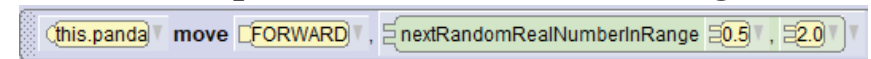- What is a random number?

- In Alice, how does one get the random number in this instruction?

`this.panda move FORWARD , nextRandomRealNumberInRange 0.5 , 2.0`

- Give examples of numbers in this range?

`this.panda move FORWARD , nextRandomRealNumberInRange 0.5 , 2.0`

Q3 Random Integers

- How many different integers are a possibility with this statement?

```
constant (WholeNumber) someNumber ⟵ nextRandomIntegerFromAUpToButExcludingB 2, 5
```

Q4 Code with Random

- After this code runs, is the Panda in the same place it started in?

```
do in order
    this.panda move FORWARD , nextRandomRealNumberInRange 2.0, 5.0
    this.panda move BACKWARD , nextRandomRealNumberInRange 2.0, 5.0
```

Class Today

- Working with random numbers

Turn 1.5036797524083945 times