CompSci 94 Review for Exam 2 November 11, 2021



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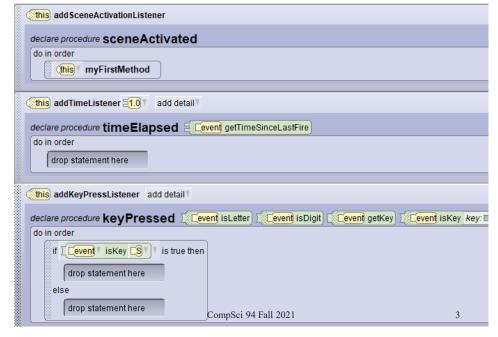
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Class Today

- Review for Test 2 Test is Tuesday, Nov 16
- Look at old Test 1's and Test 2's.
 - Lot of reading code, some writing code
 - On old Alice 3 Test 2's ignore problem 1 on
 Spring 18 and Fall 18 Test 2 we did not do the event pointOfViewChanged
- Old quizzes back up later today

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Events 1



Events 2



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4

Events – when does it start, how does it work?

sceneActivated

• addTimeListener

keyPressed

Events – when does it start, how does it work? (part 2)

• addMouseClickOnObjectListener

addCollisionStartListener

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5

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Events – when does it start, how does it work? (part 3)

• defaultModelManipulation

How do you create a Scorer (or counter)

• A scorer/counter

CompSci 94 Fall 2021 9 CompSci 94 Fall 2021 11

How do you create A Countdown Timer

Looping structures - when and how to use each one

- Count loop
- While loop

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13

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Looping in Array – when and how to use each one

- For each in
- Each in together
- Indexing loop

Randomness

• How do you generate a random number?

- How do you store a random number?
- How do you use a random number?
- What other type of random can you create?

17

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19

15

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Arrays

- How do you create an array?
- Where should you create an array?
- How do you access a value in an array?
- What is the advantage of using an array?
- How do you find the position of the first red animal in an array?

Problem: Given an array of pandas named **pandas**. Double the size of every other one starting with the second one in the array, one at a time

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23

How do you force events to only happen at certain times?

How to study for the exam

- Practice problem solving
- Redo a classwork, or a procedure or function for a classwork
- Try redoing something from a lecture
- Rewatch videos, redo online quizzes
- Understand topics reread over lecture notes
- Look at old Alice 3 test 1's and old test 2's
- Old Alice 2 tests think, how would I do this in Alice 3

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25

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27