CompSci 94
Review for Exam 2
November 13, 2018

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Class Today

• Review for Exam 2 – Exam is Thursday
• Questions on Assignment 6

• Classworks 15-20 must be checked off by November 29

• Look at Exam 2 Spring 2018
  – Lot of reading code, some writing code
Events 1

dec procedure sceneActivated
do in order
   this myFirstMethod

dec procedure timeElapsed
   event getTimeSinceLastFire
   do in order
      drop statement here

dec procedure keyPressed
   event isLetter event isDigit event getKey event isKey
   key:
   do in order
      if event isKey is true then
         drop statement here
      else
         drop statement here

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Events 2
Events – when does it start, how does it work?

• sceneActivated

• addTimeListener

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

• addObjectMoverFor

• addMouseClickOnObjectListener

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

• addPointOfViewChangeListener

• addCollisionStartListener
Billboard and counter

• Add a billboard of instructions
• A counter
A Countdown Timer

• Need a number and 3D text object
• Update the number by subtracting and then update the 3D text to display it
• Write Procedures:
  – InitializeTimer, UpdateTimer
• Need an addTimeListener Event
  – Will update every specified time unit
If statements

• When do you guard an if statement?

• How do you guard an if statement?
Looping structures - when and how to use each one

• Count loop

• While loop
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?
Arrays

• How do you create an array?

• Where should you create an array?

• How do you change a value in an array?

• What is the advantage of using an array?

• How do you find the tallest element in an array?
Changing Scenes with a Curtain

- Setup two or more scenes
- Camera

- How to change scenes
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
• Reading in book
• Understand topics – reread over lecture notes
• Look at old tests but think – how would I do this in Alice 3