Announcements

• Read Chapter 7 Sec 2 and Tips and Techniques for next time
• Tues, April 12 – Chap 8, Sect 1 and Tips and Techniques 8
• We will not do Chap. 8 Sect 2!
• Assignment 8 out
What we will do today

• Problem Solving classwork on Chap 7 Sec 1
• Old checkoffs…
Classwork – Can Cinderella and Handsome Prince ever get together?

- **Objects**
  - Cinderella, HandsomePrince, ballCinderella, ballPrince

- **Setup**
  - Cinderella and Prince 10 units each from middle

- **Game**
  - both Cinderella and Handsome prince move forward randomly
  - If both reach the middle, they connect!
  - If either reach the middle alone, then that one starts over
Setup

• They start by touching hands.
  – ballCinderella (invisible) is at same location as Cinderella
  – ballPrince (invisible) is at same location as Prince

• They both turn and walk 10 units

• They turn and face.
Play
Repeat forever

- They both move randomly forward
- Cinderella gets to the middle first alone.
  - She turns around
  - Goes forward 10 units
  - She turns back around
- They are both in middle at same time
  - Message displayed
World. My first method

Note: variable, where is it set and used?
What is repeated a lot?

- Turn around
- Move forward 10 units
- Turn back around
Setup

No variables

// Move cinderella and prince to starting positions at the same time

// They should move one unit at a time

- Do together

  world.turnAround personToTurn = handsomePrince
  unit = unit

  world.turnAround personToTurn = cinderella
  unit = unit
turnAround

• Turn halfway around
• Move forward 10 units, 1 unit at a time
• Turn back around
randomInt
How to move forward randomly?

- Move forward randomly 1 to 3 units, but not past marker ball?
- Use randomInt
More Detailed Play

• Repeat over and over
  – Cinderella moves forward 1 to 3 units, but not past the ball, her spot in the middle
  – Prince moves forward 1 to 3 units, but not past the ball, his spot in the middle
  – If both are in the middle, display a message, then start them both over
  – If just one in the middle, then that one starts over
// repeatedly try to connect Cinderella and Handsome prince, they move randomly

// They connect only if they are in the middle at the same time