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

What is repeated a lot?

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

Note: variable, where is it set and used?
Setup

- Turn halfway around
- Move forward 10 units, 1 unit at a time
- Turn back around

randomInt

- 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
  – Prince moves forward 1 to 3 units, but not past the ball
  – 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