CompSci 94
Classwork: Procedures, Movement
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The Story (briefly)

• The panda bows a lot and the pig dances a lot. The pig does some movements and then moves off screen. The phoenix flaps its wings and flies away.

• Follow the steps below. You will need to write three procedures first. Then see a more detailed description of the story.
1) Setting up the scene

- Add in any ground cover, I used grassy desert
- Drag in these objects so they are in positions similar to the picture on the next page
  - Biped: Panda, Pig
  - Flyer: Phoenix
Starting Scene

• Use these camera controls to adjust
2) Write the panda **bow** procedure

- Make sure you create the procedure as a **panda** procedure
2) the panda **bow** procedure (cont)

- Add in a **do In Order**
- The panda should bow like this once:

  ![Panda 1](image1.png) ![Panda 2](image2.png) ![Panda 3](image3.png)

- Hint: use the part spineBase
- Test your bow by calling it from `myFirstMethod`
3) Write the pig procedure dance

• Here is how the pig dances
  - First move:
  - Then turns around once
  - Last move:
Test the pig dance procedure

• In myFirstMethod. Test the pig dance procedure
4) Write the phoenix procedure `flapWings`

- First in `myFirstMethod`, have the phoenix spread its wings. The phoenix must have its wings spread **before** you call `flapWings`.

- Then create the phoenix procedure `flapWings`
  - The phoenix flaps its wings once with three movements, both wings at the same time.
    - *Use part `leftWingShoulder` and `rightWingShoulder`*
  - The total time for the flap is one second
  - See the pictures of the three movements next.
4) Phoenix flapWings (cont)

3 movements, total time 1 second

- Test flapWings in myFirstMethod
5) Now write myFirstMethod and the story

• First delete all the testing code in myFirstMethod, and then drag in a `doInOrder`.

• Here is the story to put in:
  – The panda bows, then faces the pig.
  – The pig dances, then the panda bows again.
  – The pig faces the panda, and the pig dances again.
  – Then the pig does the following 6 movements:
Story continued

• Panda and phoenix turn and face each other at the same time.
• Then the phoenix spreads its wings, and then the panda bows
• The phoenix flaps once, then flaps once while moving up in one second.
• Then the phoenix moves forward and off screen, flapping its wings several times at the same time.
• The panda faces front, bows and says “the end”