## CompSci 18S Problem Solving Nov 12, 2007



## What we will do today



- Classwork - GateKeeper Problem
- There are four players standing facing you
- One of the players is the Gate Keeper - random
- When the GateKeeper is on the far right, the game is over
- To move players, click on a player, it swaps with the player furthest away
- DEMO


## Implementation

- Objects: Cow, Penguin, Chicken, Monkey

- tennisBall, tennisBall2, tennisBall3, tennisBall4
- The Balls mark the spot where a player should stand, the balls should not move


## Setup

- Randomly set one of the players to be the GateKeeper
- Make sure the game is not over yet.
- Setup an event to show the answer - when you type S, you see who the gatekeeper is


## Run the game

- When you click on an object,
- Make sure it is a player
- Swap it with the player furthest away
- Check to see if the game is over


## Write swap in three parts

- WhichBallNearPlayer - given a player, determine which ball it is standing near (this has been written for you)
- WhichPlayerNearBall - given a ball, determine which player is standing by it
- Swap - given a player
- Determine ball it is near
- Determine ball it should move to
- Determine the player that is near the ball it should move to

