Q1 – What is the code for?
• Code for Pigs to turn right one pig at a time?

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• Code for Pigs to turn right one pig at a time?
  – Use a “for each” loop
  – Name a loop variable – I chose onePig
Q2 – What is the code for?

• Code for Pandas to bow at the same time (turn forward a little, then turn backward)?

  – Use “each in together” loop
  – Name a loop variable – I chose onePanda

Q3 – Questions about variables

• What is the difference between a const variable and a variable?
  – Const variable can only store one value when it is created
  – Variable can store a value that can change

• Which Alice construct do you use to change a variable?
  – Assign tile
Q4 - What is the output of this code?

- Pig says: 3

Q5 – Consider this code. Why isn’t somenum a choice?

- It is not in scope! It is not in the do in order!
Q6 – How do I write an array index loop to have each pig turn right once?

- Use a count loop
  - Create a variable set to 0
  - Use the variable to index in the array
  - Update the variable by 1 in the loop

- OR could use a while loop
  - Create a variable set to 0
  - Use the variable to index in the array
  - Update the variable by 1 in the loop
Q7 – How do I write code to have each pig turn right once one at a time, with one of the pandas turning with each pig?

- Use any type of array index loop

Q7 continued

- Notice the pigs and pandas arrays must be the same size for this to work!

Q8 – How do you write code to get each pig to move up and down, the first pig 0 units, second pig 1 unit, third pig 2 units, etc.

- Use an array index loop
Q8 – How do you write code to get each pig to move up and down, the first pig 0 units, second pig 1 unit, third pig 2 units, etc.

- Use an array index loop in two places
  - One for index, one for how far to move up/down

Q9 – How do you write code to color every other panda green in array?

- Start with no color
- Color every other green

Q9 – How do you write code to color every other panda green in array?

- One way, use array index, increment by 2

Q9 – How do you write code to color every other panda green in array?

- Another way? Does this work?
Q9 – How do you write code to color every other panda green in array?

• Another way? Does this work?

NO! Does this:

Q9 – How do you write code to color every other panda green in array?

• Correct Code – update someIndex

Announcements

• Assignment 4 due Oct 31
• Videos and online quiz for next

Class Today

• Array of penguins