Announcements

• We will continue to work with arrays this week.

• Assignment 7
  – Storyboard due
  – World is due Thursday.
Research Study Continued

• Your choice whether or not to participate
• You will be emailed your id number from Camelia Pearson Eaves (LSRC D230)
• I do not know your number or whether you choose to participate
• Benefit – Take a survey (test) that may help in preparing you for the final exam.
What we will do today

- Continue with Chap 10
  - Sorting arrays
- Classwork – practice with arrays
Arrays in Alice - review

• In Alice, array is a data structure to organize objects or information

• An array is not visible, it is a way of organizing

• But….
  – Alice has a 3D model to help you “see” the array
Setting elements in array

- Objects in an array are called elements

- Use “let” to set a position in an array

- Using “let”.
Accessing elements in an array

- Can specify an element at a particular location in the array
Repeat for all items in the array – in order

- Use “loop” – complicated version
- Note: index in loop is used in body
- What does this do?

What does this do?
Swapping two elements in the array at the same time

- Swap the objects at positions 0 and 3
Shuffle the array

- For each item in the array, swap it randomly with another object
SelectionSort the array

• Find the position of the shortest object
  – Swap that object with the object in position 0
• Find the position of the next shortest object
  – Swap that object with the object in position 1
• Etc…. Until the array is sorted.
Classwork Today

- Shuffle Array
- Sort Array