

# Today

Nested loops and sorting

# Short Questions?

# Quiz

# Project 6

Questions?

# Nested Loops: Example 2

Write a method that takes as input two Strings and determines whether the 2<sup>nd</sup> string is contained in the 1<sup>st</sup>. If so, then the starting point in the 1<sup>st</sup> string is returned. If not, -1 is returned

- “foobaz”, “bar” -> 3
- “foobaz”, “foobaz” -> -1

# Nested Loops: Example 3

Write a method that takes as input a height and a width and draws a parallelogram using ASCII text

- Assume 45/135 degree angles between the line segments

# Nested Loops: Example 4

Write a method that takes as input an array of Strings, finds the first occurrence of a duplicate String and returns the index of the first occurrence of the string

# Sorting Example #1

Write a method that takes as input an array of ints that are already in sorted in ascending order, and another int. This method returns an array of ints that is one larger in size than the input array, and contains all of the ints (including the new one) and is sorted in ascending order.

You just implemented the inner loop of the *insertion sort*

# Wrap Up

Due:

- Project 6: due Tuesday
  - Caveat: if Dr. Fagg is delayed in jury duty, then deadline may be pushed back as far as Thursday
- HW 8: due Thursday
  
- Project 7: released in draft form; due: Wednesday, Nov 19
  - This is a much bigger project than previous ones!
  - There will be no project 8 (only 9)

Next time:

- More sorting