CSc 110, Autumn 2016

Lecture 28: 2D Structures
Adapted from slides by Marty Stepp and Stuart Reges
What is the right structure?

• You want to store a bunch of colors so you can later choose one at random.
• Batting order of a baseball team.
• Students names and their grades on a project.
• Friends names and their phone numbers
• Height, width and location of a sports field.
• Movies a person has watched.
• Items in a shopping cart.
• A student's grades.
What is the right structure?

• The grades for all students in a class
• All books in a store arranged by category
• Many recipes each containing many steps
• Phone numbers that have been called this month on a phone plan divided by area and country code for billing simplicity
Exercise

• Write a program that allows a user to ask the distance between two friends.
  • If person 1 and person 2 are friends then they are distance 0
  • If person 2 is friends with a friend of person 2 they are distance 1

• What structure is appropriate for this problem?