

For Monday

- No reading
- Practice problems 13-18

Program 7

- Any questions?

2-Dimensional Arrays

- What's the basic idea?
- What kinds of things might this be good for?

Working with 2D Arrays

- Really an array of arrays
- How do we declare it?
- How do we create it?
- How can we access a particular element?
- How can we access an entire row?
- How can we initialize a 2-dimensional arrays of primitives?

Practice

- Declare an array of characters to hold multiple choice answers for up to 30 questions for up to 40 students.

More Practice

- Write a method that accepts three array parameters: the one you declared in the previous problem, a char array of 30 items, and an integer array of 40 items. The method should also accept the number of students, and the number of questions. Using the character array as the key for the exam, score each student's exam and store the resulting score in the appropriate slot in the integer array. Each problem is worth 2 points.

More Practice

- Write a program that helps score a miniature golf game. The program should ask for the number of players and then request the scores, hole by hole. After all data is entered the program should report which player won and then provide statistics: for each player, his/her total score, how many holes in one and how many holes over 4; for each hole, which player was best (ties should list all players who are tied). Use indices 1-18 for the holes and index 0 for

Beyond 2 Dimensions

- Can actually have as many dimensions as you like.
- When might this be useful?
- What do you need to be careful about?

Indices with Meaning

- Suppose I want to store the number of chairs in each room of a classroom building.

Deleting from an Array

Inserting into an Ordered Array