Administrivia

- Reminder: Homework 8 due Friday.

Slide 1

Multi-Dimensional Arrays in C, Revisited

- Allocating multi-dimensional arrays in C can be ugly — either allocate with fixed size or use VLAs (probably not great for big arrays).

- Now that we know about dynamic memory allocation and more about pointers, can do better. Looking only at 2D arrays for now, two approaches. Both involve representing array as array of arrays/pointers:

- One way is to first allocate array of pointers and then fill it with pointers to dynamically-allocated 1D arrays. (Example code.)

- Another way is to first allocate array of pointers and 1D array big enough to hold whole array, and then fill array of pointers with pointers into this big array. (Example code.)

Slide 2

Minute Essay

- Questions? otherwise just sign in.

Slide 3