Dynamic Arrays

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Warmup Problem

When You Enter The Classroom:

- **Program** the following function:

```
int* resize(int* A, int n, int m) {
    // TODO: Resize the array 'A' to have size 'm'.
    // Assume 'm' > 'n'.
    // Return a pointer to the resized array.
}
```

- **Analyze** the number of array accesses:
  - Assume an input of size n.
  - How many array accesses (like $A[i]$) does your algorithm(s) perform?
    - Give a formula $T(n)$.
  - What does $T(n)$ mean, in terms of your algorithm(s) runtime?

Write your group's work on the whiteboards!

Lab Directions

Begin These Now:

- **Consider attending the review session:**
  - Assignment Party (2:00-4:00PM)
  - This Friday at 2:00-4:00PM in Engineering 040
  - Ask your group members if they are going!

- **Create a new project in your IDE for Lab 3**
  - If you aren't sure how to do this
    - Ask a group member
    - Search for documentation
    - Chat with AI
  - If you are still stuck, call over a staff member

- **Work through the lab handout**
  - Available on GitHub under labs/lab-03
  - `https://github.com/URI-CSC/212-fall-2015`
    - Yes, it is 2015 not 2025
  - All directions available in the lab handout