Implementing Abstractions
Part Three
Announcements

• **Midterm has been graded.**
  • Graded exams will be distributed at the end of class, along with statistics.

• **YEAH hours for Boggle! are today from 7PM – 8:30PM in 380-380W.**
Apply to Section Lead!

http://cs198.stanford.edu
Implementing Vector
Implementing Vector

- The technique we used to implement the Stack can also be used to implement the Vector.
- Store the elements in a dynamically-allocated array.
- Double the size when extra space is needed.
Differences in **Vector**

- Elements can be added anywhere, not just at the end.
- Elements can be removed anywhere, not just at the end.
- Elements can be looked up anywhere, not just at the end.
Building a Vector

- When designing a class, you typically must design both the interface and the implementation.
- Let's work together as a class to see if we can come up with how to do this!