CSE 232 SS13 Lab 11 Agenda

1. Memory allocation
   1. Global variables – “data” section
   2. Local variables – call stack
   3. Dynamically allocated variables – “heap”
2. Difference between a pointer and a local variable
   1. Memory for a local variable exists in call stack
   2. The pointer itself (an address) also goes in the call stack
   3. What the pointer points to can be anywhere
3. Dot (.) vs Arrow (->) vs Double Colon (::)
   1. Dot – member variable and functions of of local/global objects
   2. Arrow – member variable and functions of objects accessed through pointers
      1. Using dot would literally mean you're trying to get it from the address itself, which doesn't make sense
   3. Double Colon – Scope operator – used to access something outside of the local namespace, usually in a class
   4. (Picture for dot vs arrow)
4. Stacks
   1. LIFO
   2. “push” and “pop”