Opening Discussion

- Do you have any questions about the quiz?
- Minute essay comments:
  - What does Manifest do?
  - Why not use a binary tree for a binary heap?
  - Traversing heaps?
  - Takes more writing to show building a binary heap.
  - Which is more important, concepts or code?
Heaps as Arrays

- The tree structure is nice for visualizing the heap, but it is extremely inefficient for implementation.
- If we order the nodes starting at 1 you will see nice mathematical relationships between parents and children. We use this numbering as an index into a array and store the heap in an array or an array based list.
Let's write a binary heap.
Questions?