- The list box is initialized by a list of items. When initialized, the current selection is the first element in the list.
- Create 2 operations: **arrowUp** and **arrowDown**, which allow you to change the position of the current selection.
 - If you arrowUp when the first element of the list is selected, nothing should happen (no-op).
 - If you arrowDown when the last element of the list is selected, nothing should happen (no-op).
- If the controller is given an empty list, there is no currently selected item.

Remember, in later iterations we will expand this behaviour.

- Add the concept of the "window", the portion of the list box which is currently displayed on the GUI.
 - Imagine a list box with 100 elements. The window may be showing elements [10..19].
- The arrowUp and arrowDown operations have special behaviour at the top and bottom of the window-they move it.

For example: If the window is showing elements [10..19] and 10 is selected:

- arrowUp changes the current selection to 9 and shifts the window up to show [9..18].
- arrowDown changes the current selection to 11.

Note: You **do not** have to deal with the cases where the **window** touches the top or bottom of the list. (We have to save some fun for next time!)

- Account for the window hitting top and bottom of the list
 - An arrowUp operation at the top of the window when the window is showing [0..x] is a no-op.
 - An arrowDown operation at the bottom of the window when the window is showing [x..last] is a no-op also.
- The windows size should be represented by windowSize.
 - The default windowSize is 10
 - If the list size is less than 10, then windowSize becomes the size of the list.
- Refactor the code to improve its structure.

- Add the operations pageUp and pageDown:
- pageUp moves the window up windowSize elements so that it is just above it's previous first element.
 - When the operation is complete, no element which was visible in the window before is visible in the window afterward.
 - If pageUp can not go up windowSize elements because it would hit the top of the list, it stops at its last possible move up.
 - The current selection after a pageUp is the last element in the window.
- The pageDown operation has the exact opposite behaviour. It moves the window downward, and makes the current selection the top element of the window.