Announcements

23 July 2015
Assignment 3

Please get started early on Assignment 3

http://www.cdf.toronto.edu/~csc108h/summer/assignments/a3/index.shtml

It is due on Wednesday, August 5th by 10:00pm

It is worth 8% of your total mark.
• In Bubble Sort the sorted region is in the end of the list.

• During each pass we “bubble” through the unsorted section to move the largest number to position with index end.

• So after the 1st pass, the largest number will have been moved to the end of the list.
• In Selection Sort the sorted region is in the beginning of the list.

• In every pass we find the index of the smallest item in L[i:] and swap that item with the item at index i.

• After the 1st pass, the smallest item of the list will have been moved to position w/ index 0.
Insertion Sort

- In Insertion Sort the sorted region is in the beginning of the list.
- In every pass we move (insert) the element at position $i$ to where it belongs in $L[:i + 1]$.
- Unlike Selection Sort, in Insertion Sort the sorted region might change in every pass. So after some passes, the element at position 0 is the smallest element in the sorted part of the list, but might not be the smallest element in the entire list.