Introduction to Computer Science Tutorial 11: Searching, Sorting.

- Define a function int binary_search(int seq[], int size, int elem) that performs a binary search of elem in an ordered integer array seq. The result value of this function should be a value i where elem == seq[i] or -1 if elem doesn't belong to seq.
- Define a function void insertion_sort(int seq[], int size) that orders seq in increasing order using the insertion sort algorithm.
- Define a function void selection_sort(int seq[], int size). This function should use the selection sort algorithm to sort seq in increasing order.
- 4. How you can modify the functions insertion_sort and selection sort to make them order in decreasing order?
- 5. Implement a function void merge(int seq1[], int size_seq1, int seq2[], size_seq2, int merged[]). That given two increasingly ordered sequences (seq1 and seq2), merges them into a increasingly ordered sequence and stores that sequence in result.
- 6. How you can use the merge function to sort a sequence?