

CS 311 Data Structures and Algorithms

Assignment 3

Due on Wednesday, March 16, 11:59PM.

Sorting

Write a C++ program to implement the six sorting algorithms that we learned in this class: Selection Sort, Bubble Sort, Insertion Sort, Quick Sort, Merge Sort, and Heap Sort. Your program must be able to read a list of integers (separated by space) from keyboard input and sort them using any of these six sorting algorithms.

//Sort Array A, whose size is len, into the ascending order.

`void selectionSort(int A[], int len)`

`void bubbleSort(int A[], int len)`

`void insertionSort(int A[], int len)`

`void quickSort(int A[], int len)`

`void mergeSort(int A[], int len)`

`void heapSort(int A[], int len)`

Put all the code (including your main function) in one file and submit it to Cougar Course.