CS132 – Computer Science II

Fall 2019

Mr. MacKay

Project 3 – **due Thursday, December 19th at 10:00AM!!!**  
 – **NO LATE PROJECTS ACCEPTED**

**Description**: You will write a program that compares the execution time of several sorting algorithms, and displays the results as a table

* ~~You will be sorting arrays of 50,000 integers~~
* ~~The integers must be randomly generated between 1 and 10,000~~
* ~~Each sorting algorithm will use the same array~~
* ~~The sorting algorithms to be used are:~~
  + ~~Selection~~
  + ~~Insertion~~
  + ~~Quick~~
  + ~~Modified Quicksort (size 20)~~
  + ~~Radix~~
    - ~~You were not given the code for this algorithm, you must actually write it~~
  + ~~Heap~~
    - ~~You may NOT use the heap in the STL~~
* ~~The comparisons should be done on 5 different arrays, and the average execution time should be displayed~~
* ~~Each algorithm will be called in a function, and each function definition will be templated~~
* ~~Each function template will be in a separate header file~~
* ~~Internal and External documentation is required~~
* ~~All files (driver, headers, documentation) will be emailed to me as attachments~~