Homework #6 Quick Sort

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HW#6

- Write a nonrecursive version of quick sort incorporating the medianof-three rule to determine the pivot key.
 - Quick sort using *median-of-three*: Our version of quick sort always picked the key of the first record in the current sublist as the pivot. A better choice for this pivot is the median of the first, middle, and last keys in the current list. Thus, $pivot=median\{K_l, K_{(l+r)/2}, K_r\}$. For example, $median\{10,5,7\}=7$ and $median\{10,7,7,\}=7$.
 - You can modify Sort.cpp and SortMain.cpp we implemented in Practice #13.



Requirements

- All of C-style functions and headers are allowed.
 - E.g., printf, fopen, fgets, etc.
- Write clean source code
 - Add proper comment in your source code
 - Consider code indentation for enhancing readability
- Submit your screenshots.



Requirements

- For unmentioned requirements, you can implement freely.
- Test your source codes with many cases for self verification.
- Upload ZIP file on LMS by compressing all your source codes and screenshots
 - File name: hw06_student id.zip (ex: hw06_20400022.zip)
- Due date: 11pm, 6/9 (Wed)

