

Homework Project 1

Given 09/17/2018, Due 10/03/2018

Implement the quicksort algorithm on lists. You write one function

```
struct listnode * sort(struct listnode * a);
```

with

```
struct listnode { struct listnode * next; int key;};
```

It takes a list, and returns the list in sorted sequence. You change only pointers, do not allocate new nodes or move key values to different nodes. The programming language is C or C++; test your code before submission using the `gcc` or `g++` compiler. Please remove all dead code; try to program as clearly as possible, since I try to read it. Your function for this should be less than fifty lines of code long. Do not copy code from another student or from the web; this is an easy project, and must be all your own work.

Submit your source code by e-mail to phjmbrass@gmail.com; include the course (220) and homework number in the subject line, and your name as a comment in the homework file.