Structure of lab 1

1. Self-introduction, lay ground rules for lab,
2. Grading criteria for lab
3. Go through lab0
4. Discuss lab 1
5. Discuss Unix and vim commands

**Part** 2 grading criteria for lab

Consist of two parts: algorithm and program design

Algorithm part: need to get A on codecrunch to get full mark, so you need to pass all the test cases

Program design:

Comments & indentation & modularity & identifier

general comments: should be meaningful, brief comment on complex parts of the code

e.g. in merge() of merge sort, there are many loops, can comment

avoid line-by-line translation of code to English

avoid long paragraph for the purpose of making comments more apparent

avoid comments to fix poor naming / coding style (fix the coding style in the first place)

indentation

modularity

identifier

Follow the convention in CS2030 if you have taken CS2030.

**Part 3 lab0**

Q2 statistics:

range of int in java -2147483648 to 2147483647 the question so you need sc.nextLong() to read in the numbers and use long type to store the number.

String.format("The floating number is %.2f", NUMBER);

Discuss unix and vim commands

Some useful references:

Lab0 walk through document (in Luminus File tool under lab material folder)

Notes on the website of the SoC unix workshop <https://nus-unix-workshop.github.io/2021-s1/>

<https://www.comp.nus.edu.sg/~cs1010/4_misc/UNIX_Workshop_2014_FOW.pdf>

* Permission denied when they tried to use check.sh to test their programs

chmod u+x check.sh or chmod 700 check.sh

<https://nus-unix-workshop.github.io/2021-s1/>