General Instruction

- This is a group assignment.
- Submit uncompressed file(s) via BeachBoard (Not email or in class).
- 1. Translate your Assn9.cpp into Java, Python, and JavaScript and discuss the advantages and disadvantages of the languages.
 - i. Form a group with up to 6 students.
 - ii. You are asked to translate your Assn9.cpp into Java, Python, and JavaScript except the part "iv. Floating point number distribution".
 - iii. Write Assn10. java, Assn10. py and Assn10. js.
 - iv. You can use the 64-bit IEEE 754 floating point number format.
 - v. They can be same for all of the members, but submit the following individually.
 - (a) (30 points) **source codes** and the screen shots of **console outputs** (you do not need to include a histogram)
 - (b) (10 points) discussion report

Expected output for the 32-bit IEEE 754 floating point number format

- i. Floating point number converter.
- $3.14159 \rightarrow (0,128,4788187)$
- ii. Floating point number enumeration.

1th number: 1.4013e-045
2th number: 2.8026e-045
3th number: 4.2039e-045
4th number: 5.60519e-045
5th number: 7.00649e-045
6th number: 8.40779e-045
7th number: 9.80909e-045
8th number: 1.12104e-044
9th number: 1.26117e-044

10th number: 1.4013e-044

iii. Floating point number counting

Number of positive floating point numbers: 2139095039Number of floating point numbers between 0 and 1: 1065353216Proportion (# of 0~1) / (# of positive): 49.8039%