**CS 280 - Programming Assignment #2**

Files - 26 Jan 2015 12:30pm, before class.

Checklist submit on the same day in class.

**Information**

* [Handout](doc/Handout.pdf)
* Interface: [Text](code/BList.h)
* Implementation file (starting point): [Text](code/BList.cpp)
* Random number generator
  + Interface: [Text](code/PRNG.h)
  + Implementation: [Text](code/PRNG.cpp)
* Sample driver program: [Text](https://distance.sg.digipen.edu/file.php/1659/Assignment2/driver-sample.cpp)
  + Output:
    - [ILP32](data/output-sample-ILP32.txt)
    - [LLP64](data/output-sample-LLP64.txt)
    - [LP64](data/output-sample-LP64.txt)
    - All tests run separately in a [zip file](data/cs280-2-individual-tests.zip) Includes 32-bit and 64-bit output.
* Sample command lines:
  + Microsoft:

cl -Fems.exe driver.cpp PRNG.cpp /EHa /Za /W4 /MTd /D\_CRT\_SECURE\_NO\_DEPRECATE

* + Borland:

bcc32 **-v -vG** -w -ebor.exe driver.cpp PRNG.cpp

* + GNU:

g++ -Wall -Wextra -Wconversion -pedantic driver.cpp PRNG.cpp

* Here's an [FAQ](doc/FAQ.pdf)for this assignment. **Please read this before starting the assignment**. You may also want to read it again as you are implementing it.
* Here are some [diagrams](doc/Diagrams.pdf) to help you with this assignment.
* Here are some [benchmarks](doc/blist-benchmarks.html) that show the differences in performance.

**Other criteria**

* Here's how you deal with the exception if there is no more memory available.

BNode \*node = 0;

**try**

{

node = **new** BNode; // might throw a std::bad\_alloc or something else

}

**catch** (**const** std::exception& e)

{

**throw**(BListException(BListException::E\_NO\_MEMORY, e.what()));

}