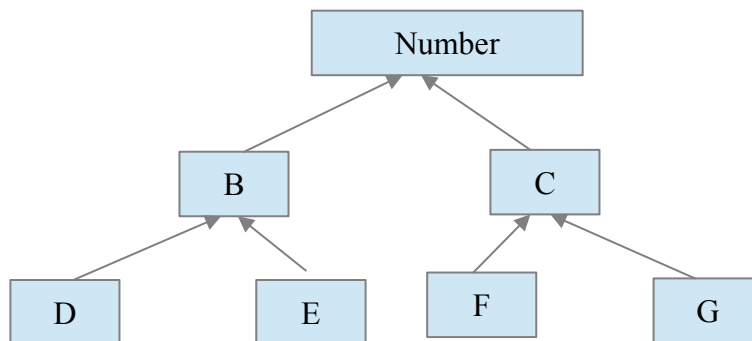


Gebze Technical University
Department of Computer Engineering
CSE 241/CSE501
Object Oriented Programming
Fall 2015
Homework # 7
Due date Dec 16 2015

Read the Wikipedia page about the main number types at
https://en.wikipedia.org/wiki/List_of_types_of_numbers#Main_types

You will make a class hierarchy of number types **NaturalNumber**, **Integer**, **RationalNumber**, **RealNumber**, **IrrationalNumber**, **ImaginaryNumber**, and **ComplexNumber**

Make a class hierarchy of several levels such as below. Include a separate hierarchy document (such as below) that shows your classes and their members (function and data).



Each class should have appropriate constructors, and setters, getters. Each class should also overload `operator+`, `operator-`, `operator <`, and `operator<<`.

Use separation of interface and implementation with your namespace.

Write the driver code for your classes for testing.