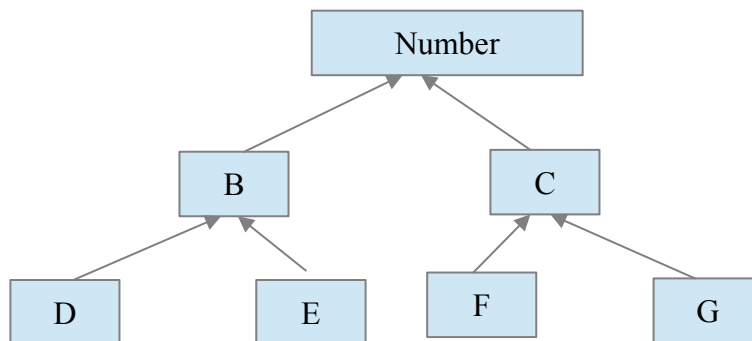


Gebze Technical University
Department of Computer Engineering
CSE 241/CSE501
Object Oriented Programming
Fall 2015
Homework # 7
Due date Dec 16 2015

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.