BDSA assignment 0

]nsel@itu.dk

The Algorithm

1. The Isleap program start with instantiating an integer, float, double or string in the constructor and converts most inputs to

2. Afterwards calling .IsLeapYear on the Leap object starts a sequence of checks.

3. First verifying that the number is divisible by four

4. Second verifying that the number is not divsible by a hundred or that it is exactly divisible by four hundred.

5. Lastly verifying that the number is one 1582 or higher

6. should any of these checks fail the method will return false and we will know that the number is not a leap year

7. If all statements evaluates true the boolean field isLeap will be converted to true by the setLeap() method

Figure 1: Diagram of the algorithm used in isLeap