BDSA2021 - Assignment 0

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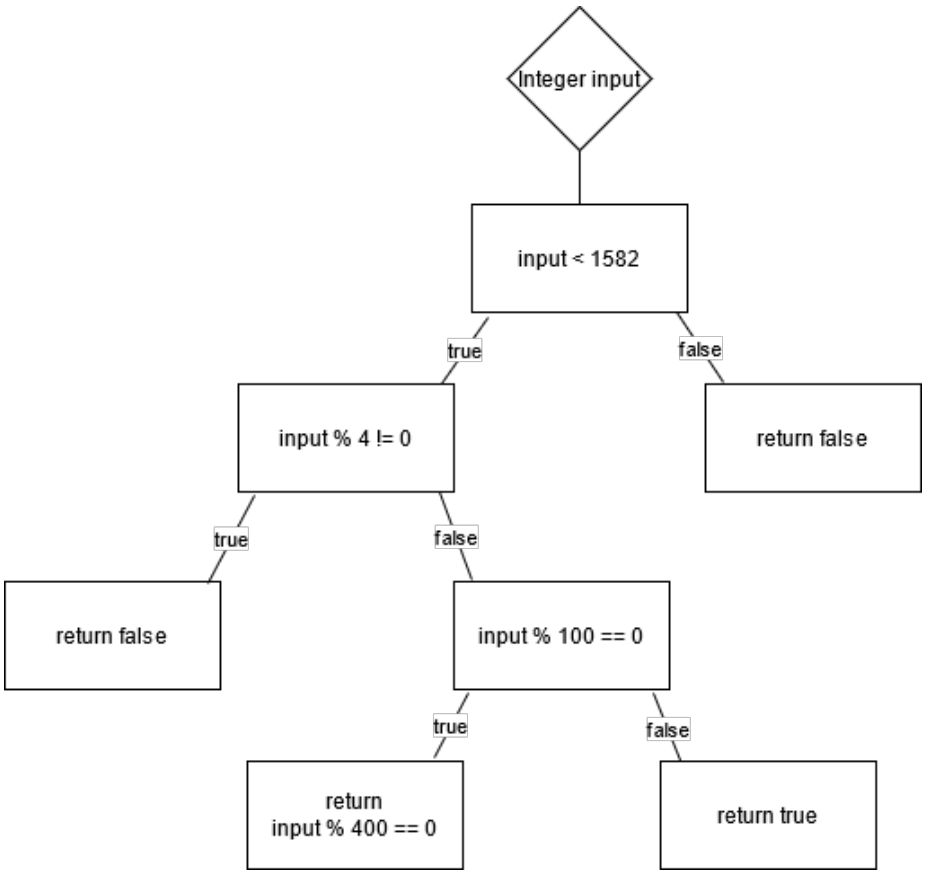
1 Link to Github repository:

https://github.com/AntonFriis/BDSA-Ass0

2 Is the input a leap year?



The algorithm above takes an integer as input and does a multitude of if statements to check whether the integer corresponds to a leap year or not, it then returns a boolean according to the answer.

1. First the algorithm checks whether or not the integer is less than 1582, since the Gregoerian calender started in 1582, therefore years before 1582 aren't leap years. If this statement is false the algorithm returns false.

2. If the above is true, the algorithm then checks if the integer is NOT divisible by 4. If this statement is true the algorithm returns false.

3. If the above is false, the algorithm then checks if the integer is divisible by 100. If this statement is false the algorithm returns true.

4. If the above is true, the algorithm checks whether the integer is divisible by 400 and returns the answer of this.