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1. One obstacle I had to overcome was figuring out how to implement the leap year offset. The logic behind it was a little bit tricky, but eventually I was able to figure it out by using if statements.

Another obstacle I had to overcome was trying to correctly display “Invalid month!”. No matter what I inputted, it displayed the error every time. I solved this issue by using the && operator instead of the || operator.

b. Non-capitalized month (“january”, 20, 2021)

Integer month (-10, 20, 2021)

Random string for the month (“apple”, 20, 2021)

Leap year February test (“February”, 14, 2000)

Leap year January test (“January”, 14, 2000)

Negative day (“March”, -10, 1999)

Day equal to zero (“March”, 0, 1999)

Day greater than 31 (“March”, 32, 1999)

Negative year (“November”, 9, -203)

Year equal to 0 (“November”, 9, 0)

Year greater than 3000 (“November”, 9, 3001)

String input for day (“October”, “apple”, 1492)

String input for year (“October”, 26, “banana”)

Century Code -2 (“April”, 18, 1220)

Century Code 3 (“July”, 26, 1308)

Century Code 1 (“March”, 10, 1045)

Century Code -1 (“December”, 2, 1199)

January correct case [non leap year] (“January”, 15, 1905)

February correct case [non leap year] (“February”, 15, 1905)

March correct case (“March”, 15, 1905)

April correct case (“April”, 15, 1905)

May correct case (“May”, 15, 1905)

June correct case (“June”, 15, 1905)

July correct case (“July”, 15, 1905)

August correct case (“August”, 15, 1905)

September correct case (“September”, 15, 1905)

October correct case (“October”, 15, 1905)

November correct case (“November”, 15, 1905)

December correct case (“December”, 15, 1905)