This example was borrowed from “How We Test Software at Microsoft” (Microsoft Press)

“How We Test Software at Microsoft” program.
Three Input Fields: Month, Day, Year
Two Buttons: “Next Date”, “Close”
Works only on dates after the Gregorian calendar was adopted on 10/15/1582

Leap Year Refresher

Year X is a leap year if either:

1) \((X \% 4 == 0) && (X \% 100 != 0)\)
2) \(X \% 400 == 0\)

Equivalence Classes

Month
V1  30 day months
V2  31 day months
V3  February
I1  >= 13
I2  <= 0
I3  Any non-integer
I4  Empty
I5  >= 3 integers

Day
V4  1 – 28  (all months have these days)
V5  29  (some months have this day, some don’t)
V6  30  (ditto)
V7  31  (ditto)
I6  >= 32
I7  <= 0
I8  Any non-integer
I9  Empty
I10 >= 3 integers
**Year**

V8  Non-leap year
V9  Leap year
V10 Century non-leap year
V11 Century leap year

I11  $\leq 1581$
I12  $\geq 3001$
I13  Any non-integer
I14  Empty
I15  $\geq 5$ integers