## Next Date Example

Reference: "How We Test Software at Microsoft" (Microsoft Press)
"Next Date" 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 $>=13$
$12<=0$
13 Any non-integer
14 Empty
$15>=3$ 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)
$16>=32$
$17<=0$
18 Any non-integer
19 Empty
|10 >= 3 integers

## Year

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

I11 <= 1581
I12 >= 3001 (or some other integer you can determine is larger than the max year)
113 Any non-integer
114 Empty
115 >= 5 integers

