## 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		Year		
	V1	30 day months	V8	Non-leap year
	V2	31 day months	V9	Leap year
	V3	February	V10	Century non-leap year
			V11	Century leap year
	<b>I</b> 1	>= 13		
	12	<= 0	I11	<= 1581
	13	Any non-integer	I12	>= 3001 (or some other integer you can
	14	Empty		determine is larger than the max year)
	15	>= 3 integers	I13	Any non-integer
	_		114	Empty
	Day		l15	>= 5 integers
	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		
	I10	>= 3 integers		