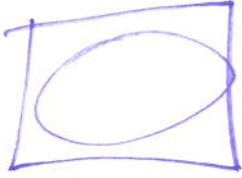


Testing

RTC (Real Time Clock)  
 Actual time, even when  
 powered off.

①

How would we test the RTC software?

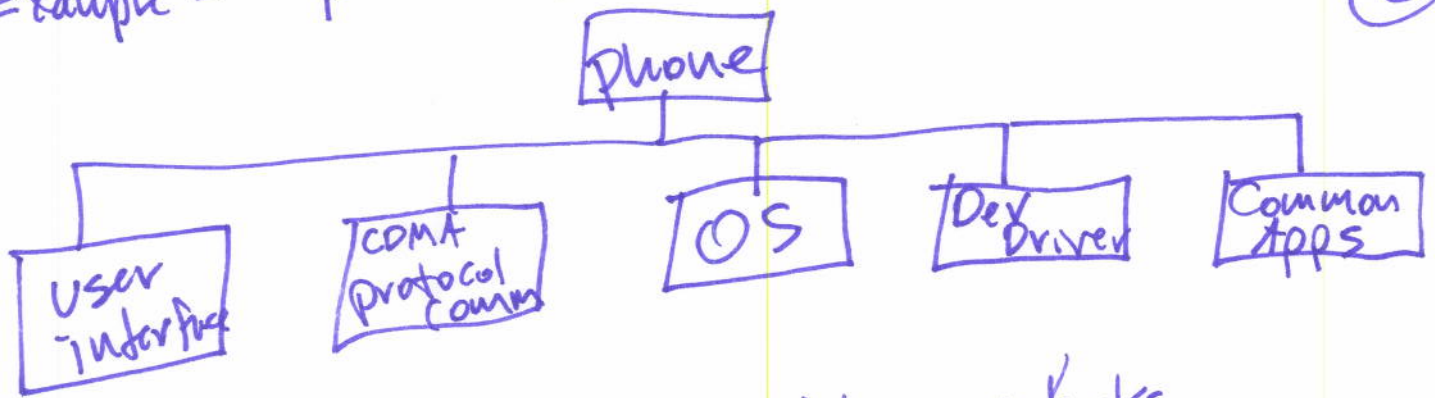
- \* Synchronize w/world clock - Accuracy
- \* Date
- \* Time (in time zone)
- \* Correct Calendar transitions

1 program = 9 man month  
 1 person = 9 months  
 2 people = 4.5 months  
 9 people = 1 month

1 baby, 9 months  
 9 women  
 1 baby  
 1 month

Example - phone software

(2)



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Write a test case that verifies that a leap year is correctly handled by RTC software.

### Test Case

Have hardware for test, standard config  
 Set time to <sup>MM/DD/YYYY</sup> 02/28/2011, 23:59:55  
 wait 10 seconds  
 verify new date/time is 03/01/2011, 00:00:05  
 Set time to 02/28/2012, 23:59:55  
 wait 10 seconds  
 verify new date/time is 02/29/2012, 00:00:05  
 Set time to 02/29/2012, 23:59:55  
 wait 10 seconds  
 verify new date/time 03/01/2012, 00:00:05 & Bug!