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**QA + Analyst. Tasks**

1. Client needs:  
   **2 digit calculator for “add” operation**.  
   Please prepare:  
   - requirements  
   - estimation for testing  
   - prepare test cases
2. Please write down test cases for such ticket description:

The Next Increase Date field isn't adjusted when updating Contract Commencement Date field.

Expected behavior: The Next Increase Date field is adjusted automatically after an update in Contract Commencement Date filed is performed and saved.

1. Write down test cases for next ticket:

**Password complexity**1. Complexity: Minimum eight characters made up of at least one upper-case, one digit and one special character.  
2. Force users (whether internal or external such as borrower) to change their password once they log in the first time.

**1. Calculator Requirements**

1. User can start calculator using terminal Ctr+Alt+T, and entering gnome-calculator
2. User can input only digits
3. User can input only two digits
4. User cannot input decimals
5. When calc starts it shows “0”
6. “0” is replaced with first entered digit
7. Calculator has “+” button, it performs the same as “+” keyboard button
8. Calculator has “=” button, it performs the same as “Enter” keyboard button
9. Calculator has “-” button, it performs the same as “-” keyboard button
10. Calculator can have “-” in output, but only with one digit, like “-7”
11. User can add positive numbers in range of 0 – 99
12. User can add negative numbers in range of -1 – 9
13. When “-” button is clicked minus is not shown in input
14. If output value is less than – 9, error shows “output value is greater than two digits”
15. “+” digit click “=” returns same digit
16. digit “+” click “=” returns same digit
17. User can input from keyboard any combination of 0,1,2,3,4,5,6,7,8,9
18. User can input from keyboard: “+”, “Enter”, “-”
19. User cannot enter “,” and “.” in the input field
20. User cannot input any symbols or character
21. User cannot input space
22. User can add only digits that doesn’t exceed 99 in sum, like 50 + 49
23. If output value is greater than 99, error is shown “Er”
24. User can clear all input field with a button “C”
25. User can clear numbers by one using Backspace button

**Estimation for testing**

Range of our calculator is 99 to -99. So the number of only positive available tests even without decimals will be 9801. Using equivalence partitioning and boundary value technique we can greatly decrease number of positive tests for add function. In average, working with requirements and developing test cases, testing can be covered within two hours.

**TestCase #1 Verify add function for two digit calculator**



2 Please write down test cases for such ticket description:

The Next Increase Date field isn't adjusted when updating Contract Commencement Date field.

**Expecte****d behavior: The Next Increase Date field is adjusted automatically after an update in Contract Commencement Date filed is performed and saved.**

**Test case**

Write down test cases for next ticket:

**Password complexity  
1. Complexity: Minimum eight characters made up of at least one upper-case, one digit and one special character.  
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