**Lesson 9 Homework**

**Explore this web app:** [**https://petstore.octoperf.com/actions/Catalog.action**](https://petstore.octoperf.com/actions/Catalog.action)

**And prepare:  
  
1. 2 functional test cases in TestRail, including: High priority scenario, low priority scenario or a corner case**

**2. 2 Non-functional test cases in TestRail, including: using different type of testing (ex.: performance; load; stress, user experience, etc.)**

**3. 2 bugs in Jira from today’s class: 1 critical and 1 minor severity.**

Functional test cases:

1.High priority <https://beetrootqa2024.testrail.io/index.php?/cases/view/244>

2.Low priority <https://beetrootqa2024.testrail.io/index.php?/cases/view/274>

Non-functional test cases:

1.Usability <https://beetrootqa2024.testrail.io/index.php?/cases/view/255>

2.Security <https://beetrootqa2024.testrail.io/index.php?/cases/edit/275/1>

Bugs:

Critical severity: <https://beetroot2024.atlassian.net/browse/SCRUM-50>

Minor severity: <https://beetroot2024.atlassian.net/browse/SCRUM-49>

**Homework from LMS:**

**TASK 2:**

**The following statement is about decision coverage:**

***When the code has a single 'IF' condition and no loops (LOOP) or switches***

***(CASE), any test we run will result in 50% decision coverage.***

**Which option is true about this statement?**

**a. Correct. Any test case provides 100% coverage of statements, thus**

**covering 50% of solutions.**

**b. Correct. The result of any IF condition test will be either true or false.**

**c. Incorrect. A single test case can guarantee 25% coverage of the solutions**

**in this case.**

**d. Incorrect, because it is too general a statement. We cannot know if it is**

**correct as it depends on the software being tested.**

I had to google what LOOPS and SWITCHES are. If I get it right, I choose B.

I understand that each ‘IF’Condition has 2 possible answers: TRUE or FALSE. So, each test case for each IF condition will result in one of those decision, so we have 50% decision coverage.

**TASK 3**

**There’s the following pseudocode: Switch PC on -> Start MS Word -> IF MS Word**

**starts THEN -> Write a poem -> Close MS Word.**

**How many test cases will it take to test its functionality?**

**a. 1 for operator coverage, 2 for decision coverage**

**b. 1 for operator coverage, 1 for decision coverage**

**c. 2 for operator coverage, 2 for decision coverage**

**d. 2 for operator coverage, 1 for decision coverage**

Answer: c

1.Test case for ‘Switch PC on’

2.Test case for ‘Start MS Word’

3.Decision coverage for ‘If MS Word starts’

4.Decision coverage for 'If MS Word doesn't start’

**TASK 4**

How many tests are needed to check code statements:

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a. 2

b. 1

c. 3

d. 4

Answer: 4

As far as I understand we will check the following:

-READ P

-READ Q

-IF P+Q>100

-IF P>50

But to be honest, I was wondering here, shouldn’t we also test what happens if :

-P+Q =100

- P+Q <100

- IF P<50

- IF P=50??

**TASK 3:**

**We continue working on a startup for a cat photo sharing app.**

**There’s the following algorithm:**

***Ask what kind of pet the user has.***

***If the user answers that they have a cat, then ask what breed it is: "short-haired or***

***long-haired?"***

***If the user answers "long-haired", then ask: "Would you like to get the contacts of the***

***nearest groomer?"***

***If the user answers "yes", then say: "Give me the address of the nearest cat grooming***

***salon."***

***else***

***Say: "Suggest a shop with fur care products"***

***end***

***else***

***Say "Suggest a pet shop"***

***end***

***If the user has no cat***

***Say "Come back when you decide to get a cat"***

***end***

**Assignment:**

**1. Draw an algorithm diagram (in a tool of your choice, for example, in the built-in**

**Google Docs editor, figjam, or other.)**

**2. What is the minimum set of test cases needed to make sure that all questions**

**have been asked, all combinations have been passed, and all answers have been**

**obtained?**

Figjam diagram: <https://www.figma.com/file/q6g6dEQ7bJ9RcnK3bPtvxq/Welcome-to-FigJam?type=whiteboard&node-id=0%3A1&t=wlqZiW2M2yuosIjv-1>

2.Test cases:

1.User has a cat

2.User has other pet

3.User has a short-haired cat

4.User has a short-haired cat and wants a pet shop

5.User has a short-haired and wants a shop with fur care products

4.User has a long-haired cat and wants the address of the nearest groomer

5. User has a long-haired cat and does not want the address of the nearest groomer