

Date: _____

Day: M T W T F S

SCQE-01 (26/01/23) 50 Marks
Min

- related to software testing.

- selenium - jira.

- good dev \Rightarrow good tester.

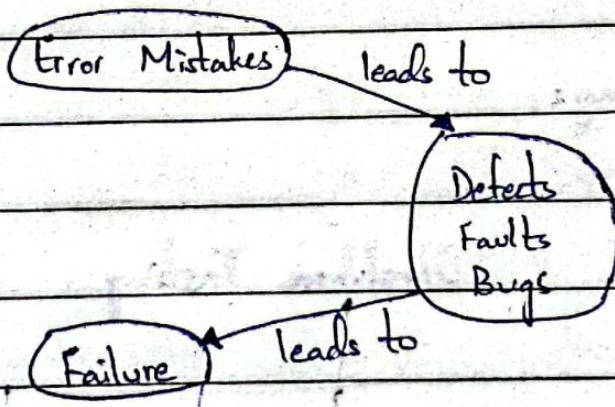
SCQE-02 (17/01/23)

- ERROR: - mistake by developer
- unknown.

- DEFECT: (known mistake by tester)

- BUG: Mistake accepted by developer

- FAILURE: Unable to do a functionality.



Why Software Testing?

1- Quality Measure

2- Identify problems/bugs.

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Blackbox Testing

- Code not visible
- By Q/A
 - Don't know coding
 - only functionality check
 - inputs/outputs
- don't test code
- only limited inputs.

Whitebox Testing.

- Code is visible.
- By Developer
- not only input/outputs
 - but also code(architecture)
 - & if-else(logic), try-catch
- detailed testing-
- during development.

• Both testing are imp.

Regression Testing:

ReTesting:

Blackbox Testing

Functional [Def] Non-functional [Def] Regression/ReTesting

e.g. Recieve Email e.g. within 2-min.

- | | |
|-----------------|-----------------------------|
| - Unit | - Load. |
| - Integration. | - Stress. |
| - Smoke Testing | - Strain. |
| - Acceptance. | - Volume (piece of code/db) |

Date: _____

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- Security

- Performance.

Q: What is a test case?

- d/f scenarios to test a functionality.
- more test cases for functionality \rightarrow more quality.

SQE-03 (23/01/24)

Blackbox	White box
- closed testing.	- clear box testing.
- external	- internal.
- behaviour testing.	- logic testing.
- least time.	- most time.

Retesting vs Regression Testing

↓
testing again failed
test cases after some
modification.

↑
testing the previously
correctly working test cases/
passed test cases again
for expected new bugs
after updating/adding/
merging code.

Testing is not easy

- may ask you to re-write the code.

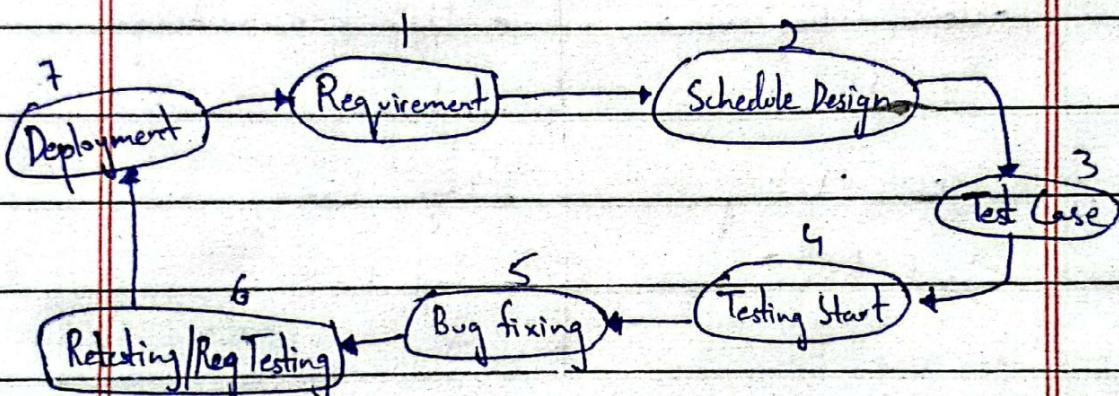
- checks the logic in code.

int \Rightarrow short Int (memory wastage)

SQE - 4 (26/01/24)

Remove defects \Rightarrow increase quality.

STLL \Rightarrow for QA Team.



⇒ Requirements

Func Non Func.

- Login - within 5 sec.

- Logout - 24/7 backup

- balance - security.

- transaction.

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Features			

2) Schedule Design

features + schedule (priority) + date + tester -

Test case	Versions	1	3	Total test cases	Test cases done	TCL Pass	TCL Fail	P T	①	②	③
									1	2	3
1.1		1	Login	10							
1.2		2									
		3									

P → priority | T → Tester.

1) Gather Req.

2) Scheduling priority + tester name + date.

3) Design test cases (should be by senior).

4) Start testing.

5) Deliver failed test cases / bug fixing parallel to fix bugs

6) Retesting / Regression Testing.

7) Deployment

in parallel

dev team works

bugs

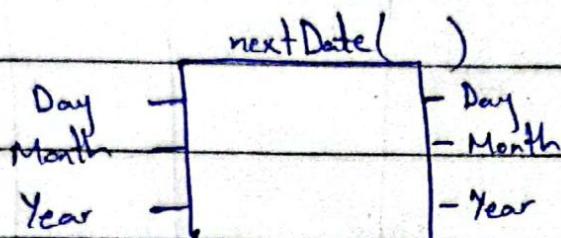
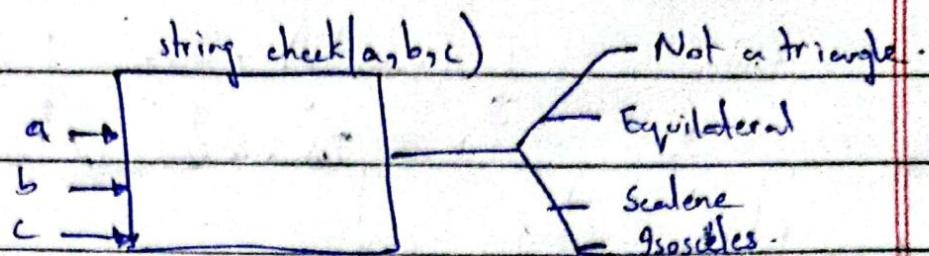
• Version in test case ⇒ some change in scenario.

SQE-5 (30/1/25)

Unit Testing:

- Testing small features.

- blackbox + white box

Triangles:

$$C_1: 1 \leq a \leq 200$$

$$C_4: a \leq b+c$$

$$C_2: 1 \leq b \leq 200$$

$$C_5: b < a+c$$

$$C_3: 1 \leq c \leq 200$$

$$C_6: c < a+b$$

$$C_7: a = b \& b = c \quad (\text{Eq})$$

. otherwise

$$C_8: a \neq b \& b \neq c \& a \neq c \quad (\text{Scalene})$$

not a Δ

$$C_9: (a=b) \text{ or } (a=c) \text{ or } (b=c) \quad (\text{Isosceles})$$

1 4 3 \Rightarrow may output scalene but it
is not Δ

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SQE-6

(2/02/24)

A system that accept

18 \longleftrightarrow 56.

Valid (within range) Invalid (out of range).

min 18

min -17 (min -1)

max 56

max +57 (max +1)

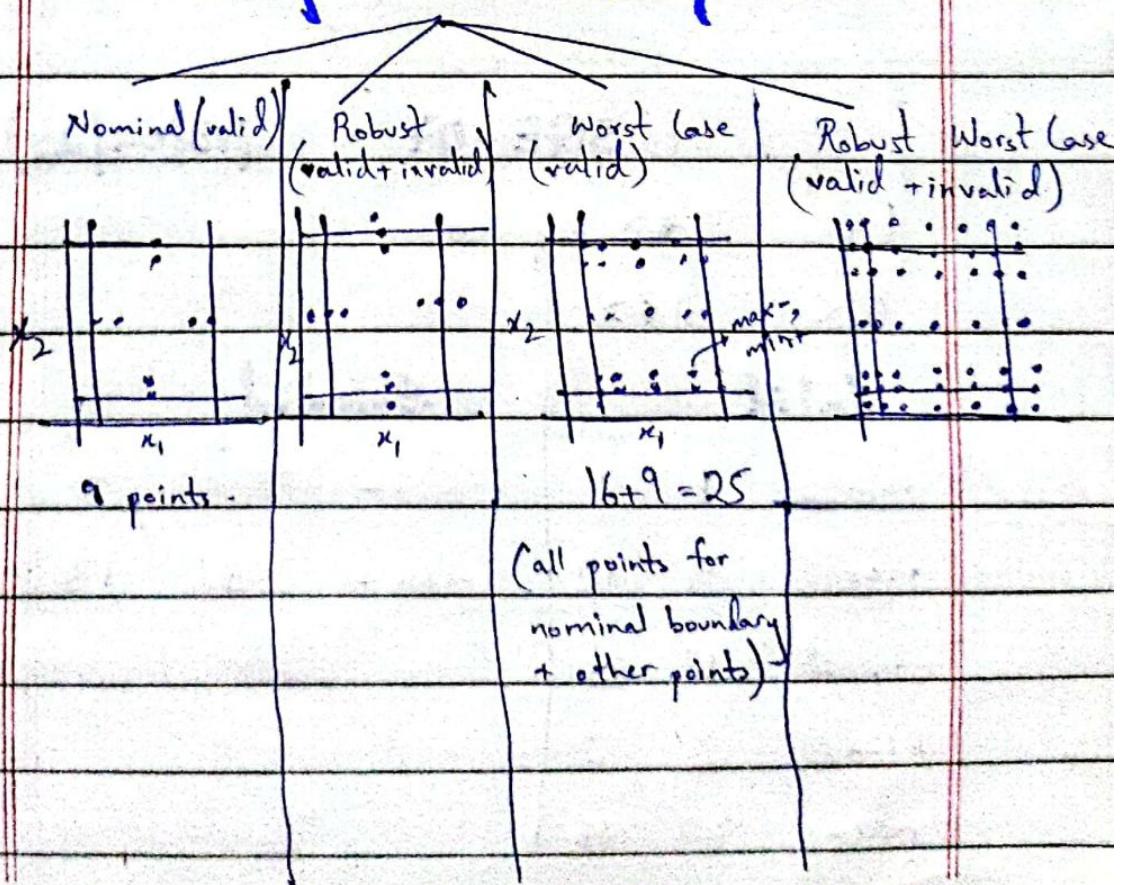
(mid val) nominal ~~at~~ 37

(min+1) min+ 19

(max-1) max - 55

(UNIT TESTING)

Boundary Value Testing



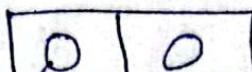
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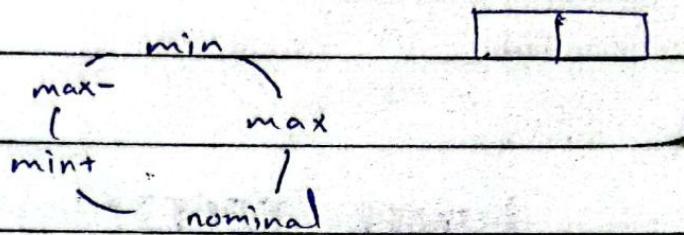
10 characters

$$10^2 = 100 \text{ possibilities}$$

character ^ boxes \Rightarrow combinations

$$\Rightarrow 5^2 = 25$$

Normal Test Case

5x values \Rightarrow 25 values

SQE - 07 (13/02/24)

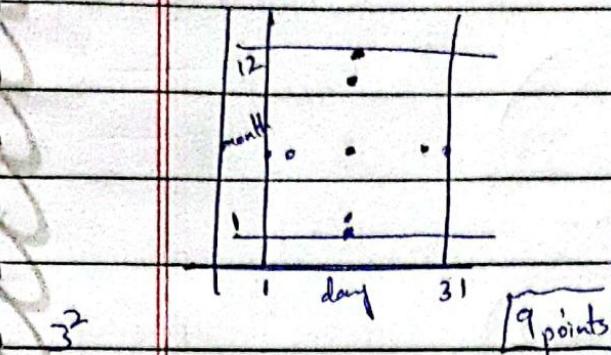
1 < 12 \Rightarrow day month1 < 31 \Rightarrow day

Valid		Invalid	
day	month	day	month
min	1 1	min-	0 0
max	31 12	max+	32 13
nominal	15 6		
mint	2 2		
max-	30 11		

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Normal Boundary
(valid)

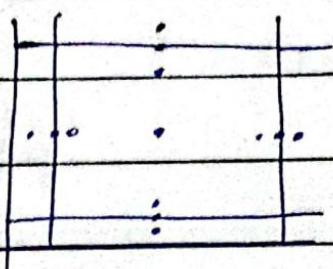


(15,1)
↓ min
nominal

(15,12)
↓ max
nominal

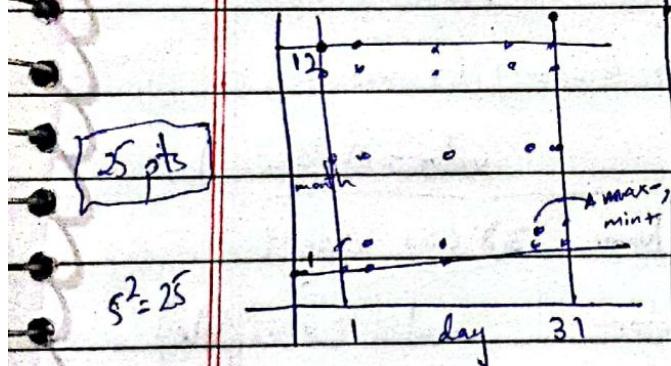
{ 9 points}

Robust BVT
(valid + invalid)



{ 13 pts}

Worst Case BVT
(valid)



$$5^2 = 25$$

all points for normal

boundary to other points.

Robust Worst Case BVT
(valid+invalid)

{ 49 values/points. } $7^2 = 49$.

Robust \Rightarrow out of boundary

Normal \Rightarrow only normal from worst case BVT.

9 points

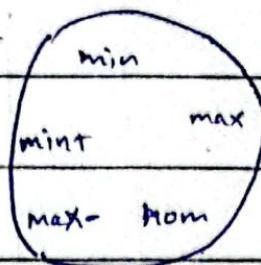


$$3^2 = 9$$

Worst Case: BVT

25 points

$$5^2 = 25$$



$$(min, min) \Rightarrow (1, 2)$$

$$(nom, min) \Rightarrow (15, 1)$$

SQE-08 (12/02/24)

Selenium \Rightarrow Automated Web Testing (blackbox)

- Open Command \Rightarrow target url.
- Click Command \Rightarrow locator (id=username)
- Type Command \Rightarrow locator (id=username, value=abc@_____).

1) ID 2) Name 3) CSS class

- store text \Rightarrow locator value (variable)
- echo \Rightarrow locator {msg}
- assert \Rightarrow target \Rightarrow variable name
value \Rightarrow expected value
- send keys \Rightarrow id = abc
 $\$\{KEY-ENTER\}$

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- if $\$ \{ \text{price} \} < 280$
- end.

SQE-09 (20/02/24)

Equivalence Class Testing.

