

a) 17
b) 19
c) 24
d) 21

2) Input Box should accept the Number 1 to 10. Identify Equivalence partitioning and Boundary values for testing

Invalid	Valid	Inavalid
0	1,2 9,10	11

Boundary testing is the process of testing between extreme ends or boundaries between partitions of the input values.

- So these extreme ends like Start- End, Lower- Upper, Maximum-Minimum, Just Inside-Just Outside values are called boundary values and the testing is called "boundary testing".
- The basic idea in boundary value testing is to select input variable values at their:
 1. Minimum
 2. Just above the minimum
 3. A nominal value
 4. Just below the maximum
 5. Maximum
- 6. In Boundary Testing, Equivalence Class Partitioning plays a good role
- 7. Boundary Testing comes after the Equivalence Class Partitioning.

Equivalent Class Partitioning is a black box technique (code is not visible to tester) which can be applied to all levels of testing like unit, integration, system, etc. In this technique, you divide the set of test condition into a partition that can be considered the same.

- It divides the input data of software into different equivalence data classes.
- You can apply this technique, where there is a range in the input field.

4) Write Test Cases For This Scenario:

If A Job Fails It Should Get Restarted Again. This Should Happen For Three Times. If It Fails again, then It should quit.

Ans

Id	Importance	Precondition	Test Summary	Steps to execute	Expected Result
1	High	Job Has Failed	Rerun Application if 1st fail	Run The Application if it fails rerun	The application works
2	High	Job Has Failed	Rerun Application if 2nd fail	Run The Application if it fails rerun	The application works
3	High	Job Has Failed	Quit Application if 3rd fail	Quit the application	Exit the Application

5) Write The Test Case/scenario For A Login Page?

Ans

<https://docs.google.com/spreadsheets/d/1VUskonb59IqbMDv2a6w2Ew3RkWzd56F1rvQl1di05TU/edit?usp=sharing>

7) Write test cases/scenarios to verify the functionality of a printer?

Ans

https://docs.google.com/spreadsheets/d/18cQGwUr2iC7QGyH7W1urGzd2_tu1r7vkbm_sFT2PH1g/edit?usp=sharing

Printer_TestCases ☆ 📁							
File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive							
100% \$ % .00 123 Default (Arial) 10 B I S A							
Printer should get start							
	A	B	C	D	E	F	G
1	Test Case ID	Importance	Pre Condition	Test Summary	Steps to Execute	Expected Result	Actual Result
2	TC01	High	Printer must be connected to socket.	Determine whether printer is getting on.	Connect printer to socket.	Printer should get start	
3	TC02	High	Having a page with Frames	Determine whether a page with frames prints properly	Print a page with frames	Page frames should be printed properly	
4	TC03	High	Having a page with various formats	Determine whether a page with various formats prints properly	Print a page with various formats	Page with various formats should be printed properly	
5	TC04	High	Having a page with aligned text	Determine if a page with aligned text prints as seen on screen	Print a page with aligned text	Aligned text should be printed as seen on the screen	
6	TC05	High	Having a page with indentations	Determine if a page with indentations prints as seen on screen	Print a page with indentations	Indentations should be printed as seen on screen	
7	TC06	High	Having a page with Portrait and Landscape settings	Determine if a page with portrait and Landscape settings prints properly	Print a page with portrait and a page with landscape settings	Pages with portrait and landscape settings should be printed properly	
8							
9							

8) Write down test case/scenarios to list down possible steps to test a smart phone

Ans

https://docs.google.com/spreadsheets/d/1Dr-Vg_GMbzxZKXZ3GcFp32LbrbTgfpb8JJNAcDdCQPQ/edit?usp=sharing



Ans

5%	10%	15%
\$ 1000	\$1001 \$2000	\$2001

11) A mail order company charges \$2.95 postage for deliveries if the package weighs less than 2 kg, \$3.95 if the package weighs 2 kg or more but less than 5 kg, and \$5 for packages weighing 5 kg or more.

Generate a set of valid test cases using equivalence partitioning.

Ans-

Charge \$2.95	Charge \$3.95	Charge \$5
1.99 kg	2 kg 4.99 kg	5kg

Id	Importance	Precondition	Test Summary	Steps to execute	Expected Result
1	High	Weight of package is less than 2 kg	Check how much to charge for < 2kg	Weigh the package Note it down	Charge \$2.95
2	High	Weight is between 2 to 5kg	Check how much to charge for > 2kg and < 5kg	Weigh the package Note it down	Charge \$3.95
3	High	Weight is more than 5kg	Check how much to charge for > 5kg	Weigh the package Note it down	Charge \$5.00

12) Boiling point of water is at 100 degrees Celsius. Determine the boundary values

Ans

Invalid	Valid	Invalid
99	100	101

13) Exam pass – for 40 marks; merit at 60 and above; and distinction at 80 and above.

Determine the boundary values

Ans

Pass		Merit		Distinction
40	59	60	79	80

14) Order numbers on a stock control system can range between 10000 and 99999 inclusive. Which of the following inputs might be a result of designing tests for only valid equivalence classes and valid boundaries:

- a) 1000, 5000, 99999
- b) 9999, 50000, 100000
- c) 10000, 50000, 99999
- d) 10000, 99999
- e) 9999, 10000, 50000, 99999, 100000

Ans C-10000, 50000, 99999

15) A program validates a numeric field as follows:

Values less than 10 are rejected, values between 10 and 21 are accepted, values greater than or equal to 22 are rejected. which of the following input values cover all of the equivalence partitions?

- a. 10,11,21
- b. 3,20,21
- c. 3,10,22
- d. 10,21,22

Ans C-3,10,22

16) Which test cases are written first: white boxes or black boxes?

Ans- Black Box test cases are written first.

17) Can you explain requirement traceability and its importance?

Ans

Requirement Traceability is mapping of requirements to test cases. There are two main traceability: Forward and Backward. It is important to know whether all the requirements mentioned in the Requirement Document have a corresponding test case or not. At the same time, it is important to know which requirement a particular test case has been written for. These are important if there are any changes in the requirement, we should know which test cases need to be re-written or modified.

Its Importance -

1. To ensure that a particular test case is based on one more requirements mentioned in the Requirement Doc.
2. To determine which test cases are written for which requirements
3. Also to check if test cases are written for every requirement.
4. If there arises any dispute over a bug in which developer says "it is not a bug as per the design", in that case the test case can be traced back to the requirement
5. It helps in finding out how many test cases are affected whenever there is any change in the application