# Homework

## Tasks

## Valid vs. Invalid Values

Imagine you are a security guard at the airport. You have to define whether the hand luggage is allowed or not. Sort out the valid and invalid content or characteristic of the luggage by following the British Airline restrictions. Extra baggage is not allowed.

\*You could check this [url](http://www.britishairways.com/en-gb/information/baggage-essentials/hand-baggage-allowances) for extra information about the restrictions. Check out the Packing restrictions at the bottom of the page.

VALID

INVALID

Wet wipes

Small scissors

Cough syrup 120ml

24kg bag

Umbrela

23\*40\*25 sized cabin bag

150 ml Perfume

23\*30\*25 sized personal bag

Thermometer with mercury

Laptop

Pepper spray

Tennis racket

## Test Design Techniques

Below is the diagram of test design techniques – fill in the names of the different techniques and match them with a sentence form the box to the left. (See the example)

**Testing**

**(2)**

**(7)**

**(5)**

**(6)**

**(8)**

**(3)**

**(4)**

**(1)**

**(10)**

**(9)**

1. Tests are based on people's skills, knowledge, intuition and experience
2. One of the types is Walkthrough
3. Also called specification-based
4. Structure-based techniques
5. Involve running (executing)
6. Analyzing software “at rest”
7. Tests are derived systematically from what is known about the defect
8. What the system does?
9. How the system does what it does?
10. Do not involve running (executing)
11. Static - j
12. Dynamic - e
13. Review Analysis - b
14. Black-box - c
15. Static Analysis - f
16. Experience-based - a
17. White-box - d
18. Defect-based - g
19. Exploratory - i
20. Error guessing - h

* **1. Static - k**
* **2. Dynamic**
* **3.\_\_\_\_\_\_\_\_\_\_\_**
* **4.\_\_\_\_\_\_\_\_\_\_\_**
* **5.\_\_\_\_\_\_\_\_\_\_\_**
* **6.\_\_\_\_\_\_\_\_\_\_\_**
* **7.\_\_\_\_\_\_\_\_\_\_\_**
* **8.\_\_\_\_\_\_\_\_\_\_\_**
* **9.\_\_\_\_\_\_\_\_\_\_\_**
* **10.\_\_\_\_\_\_\_\_\_\_**
* **11.\_\_\_\_\_\_\_\_\_\_**
* **1. Static - k**
* **2. Dynamic**
* **3.\_\_\_\_\_\_\_\_\_\_\_**
* **4.\_\_\_\_\_\_\_\_\_\_\_**
* **5.\_\_\_\_\_\_\_\_\_\_\_**
* **6.\_\_\_\_\_\_\_\_\_\_\_**
* **7.\_\_\_\_\_\_\_\_\_\_\_**
* **8.\_\_\_\_\_\_\_\_\_\_\_**
* **9.\_\_\_\_\_\_\_\_\_\_\_**
* **10.\_\_\_\_\_\_\_\_\_\_**
* **11.\_\_\_\_\_\_\_\_\_\_**
* **1. Static - k**
* **2. Dynamic**
* **3.\_\_\_\_\_\_\_\_\_\_\_**
* **4.\_\_\_\_\_\_\_\_\_\_\_**
* **5.\_\_\_\_\_\_\_\_\_\_\_**
* **6.\_\_\_\_\_\_\_\_\_\_\_**
* **7.\_\_\_\_\_\_\_\_\_\_\_**
* **8.\_\_\_\_\_\_\_\_\_\_\_**
* **9.\_\_\_\_\_\_\_\_\_\_\_**
* **10.\_\_\_\_\_\_\_\_\_\_**
* **11.\_\_\_\_\_\_\_\_\_\_**

\

# Equivalence Partitioning and Boundary Value

Suppose a password field accepts minimum **6 characters** and maximum **10 characters**  
With applying Equivalence Partitioning and Boundary Value fill table with all needed values and expected result for them (add more rows if you needed)

|  |  |  |
| --- | --- | --- |
| Test Scenario # | Test Scenario Description | Expected Outcome |
| 1 | Enter a password with 0 characters (empty field) | FAIL |
| 2 | Enter a password with 5 characters | FAIL |
| 3 | Enter a password with 6 characters | PASS |
| 4 | Enter a password with 7 characters | PASS |
| 5 | Enter a password with 9 characters | PASS |
| 6 | Enter a password with 10 characters | PASS |
| 7 | Enter a password with 11 characters | FAIL |
| 8 | Enter a password with 14 characters | FAIL |

## Decision Table Testing

Below is a decision table for daily activities.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Conditions | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Is today a weekday? | T | T | T | T | T | T | F | F | F | F |
| Is today a holiday? | F | F | T | T | T | T | T | T | T | T |
| Is it raining? | F | T | F | F | F | T | F | F | F | T |
| Actions |  |  |  |  |  |  |  |  |  |  |
| Go to work | T | T | F | F | F | F | F | F | F | F |
| Go on a picnic | F | F | T | F | T | F | T | F | T | F |
| Stay home | F | F | F | T | T | T | F | T | T | T |

1. If it`s a weekday and it`s not a holiday, and it`s not raining, expected result is that I should go to work and I should not go on a picnic, and I should not stay home.
2. If it`s a weekday and it`s not a holiday, and it`s raining, expected result is that I should go to work and I should not go on a picnic, and I should not stay home.
3. If it`s a weekday and it`s a holiday, and it`s not raining, expected result is that I should not go to work and I should go on a picnic, and I should not stay home.
4. If it`s a weekday and it`s a holiday, and it`s not raining, expected result is that I should not go to work and I should not go on a picnic, and I should stay home.
5. If it`s a weekday and it`s a holiday, and it`s not raining, expected result is that I should not go to work and I should go on a picnic, and I should stay home.
6. If it`s a weekday and it`s a holiday, and it`s raining, expected result is that I should not go to work and I should no go on a picnic, and I should stay home.
7. If it`s not a weekday and it`s a holiday, and it`s not raining, expected result is that I should not go to work and I should go on a picnic, and I should not stay home.
8. If it`s not a weekday and it`s a holiday, and it`s not raining, expected result is that I should not go to work and I should not go on a picnic, and I should stay home.
9. If it`s not a weekday and it`s a holiday, and it`s not raining, expected result is that I should not go to work and I should go on a picnic, and I should stay home.
10. If it`s not a weekday and it`s a holiday, and it`s raining, expected result is that I should not go to work and I should not go on a picnic, and I should stay home.