Black-Box Test Techniques Exercise

Perform Equivalence Partitioning and Boundary Value Analysis for the following:

Question 1

To be eligible for a mortgage you must be between the ages of 18 and 64 (inclusive). The age input field will only accept two digits and will not accept minus figures ("-"). What are the valid and invalid values for Equivalence Partitioning and Boundary Value Analysis?

Answer

Question 2

An input field on a mortgage calculator requires a value between 15,000 and 2,000,000. The field only allows numerical values to be entered and has a maximum length of 9 digits. What are the valid and invalid values for Equivalence Partitioning and Boundary Value Analysis?

Answer

Question 3

The term of a mortgage can be between 5 and 30 years, identify the valid values for Equivalence Partitioning and Boundary Value Analysis?

Answer

Question 4

The font formatting box in a word processing package allows the user to select the size of the font – ranging from 6 point to 72 point (in 0.5 steps).

What are the valid and invalid values for Equivalence Partitioning and Boundary Value Analysis?

Answer

Question 5

A screen for entering mortgage applications requires information on both peoples wages and will generate the maximum amount available for the mortgage (based on 3¼ times larger wage, 1¼ times lower wage). If the mortgage is less than £250,000 then the interest rate is 4.5%, if the amount is £250,000 to £1,000,000 then the interest rate is 4%.

What are the valid and invalid values for Equivalence Partitioning and Boundary Value Analysis necessary to test the output (i.e. the interest rate)?

Answer

Question 6

Personal loan of between £1000 to £25000. For loans between £1,000 and £10,000 there is an interest rate of 8.5%, loans between £10,001 and £25,000 have an interest rate of 8%.

What are the valid and invalid values for Equivalence Partitioning and Boundary Value Analysis?

Answer

Question 7

A grading system takes student marks (coursework 0 – 75 and exam 0 – 25) and generates a grade based on those marks (0 – 40 Fail, 41 – 60 C, 61 – 80 B and 81 – 100 A).

Identify the valid and invalid values for Equivalence Partitioning and Boundary Value Analysis necessary to test the output (i.e. the grade)?

Answer