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QUESTION 1

Consider a TAS associated to dynamically changing software frequent releases. Your goal is to determine the amount of effort required to maintain the automated tests of the regression test suite for each new release of the SUT. What is the MOST important metric to collect to achieve your goal?

A. The code coverage achieved with the automated tests, for each new release of the SUT

B. The number of automated tests which fail because of a single software defect, for each new release of the SUT

C. The time it takes to execute all the automated tests, for each new release of the SUT.

D. The number of automated tests requiring maintenance, for each new release of the SUT.

Correct Answer: B

QUESTION 2

You are testing a major enhancement to an air traffic control user interface. You have use of a sophisticated pre-production test environment, created specifically for large scale automated regression, performance and security testing. The window for regression testing is limited and must successfully conclude, with no major regressions remaining, before the non-functional testing starts.

You have been using the same version of the TAS for the last few releases, each time completing the automated regression test suite in a single overnight run. However, due to the latest enhancements for the SUT, you believe there is a risk that the test suite may no longer complete overnight and therefore delay performance and security testing.

Which option would be the BEST and MOST cost-efficient approach to mitigate this risk?

A. Create a mirror of the pre-production test environment and split the regression test suite to run in parallel across the environments.

B. Split the regression test suite into multiple parts, running in the environment across consecutive nights.

C. Analyse the regression test suite and remove test coverage duplication and redundancy.

D. Introduce better coding practices for the automation scripts, including coding guidelines, reviews and improved static analysis.

Correct Answer: A

Reference: https://www.guru99.com/regression-testing.html

QUESTION 3

Which of the following is NOT an advantage of test automation?

A. The ability to perform tests which would be difficult or impossible to execute manually

B. The ability to run more tests in less time and therefore to make it possible to run them more often

C. The ability to find more defects with the same tests, compared to executing the same test manually

D. The ability to enable a better use of skilled testers by freeing them from repetitive and boring tasks

Correct Answer: C

QUESTION 4

Which of the following metrics could suggest, under certain condition that an automated regression test suite has NOT been updated for new functionalities added to the SUT?

A. The ratio of comments to executable statements in the SUT code.

B. The SUT code coverage provided by the execution of the regression test suite.

C. The defect density in the automation code of the regression test suite.

D. The ratio of commands to executable statements in the automation code of the regression test suite

Correct Answer: B

QUESTION 5

You are working on a web-based application called Book Vault that allows people to upload books and order books. This application must be available on all major browsers.

You have been testing the application manually and management have asked you to consider automating some of the tests.

You have investigated a number of commercial and free tools which can automate tests at a web browser level and one tool in particular meets your requirements and you have implemented a trial version.

You have basic programming skills and the main goal is to automate a few functional tests to see if the tool is compatible with the application and can recognise the objects and controls.

Which scripting technique would be MOST suitable in this scenario in order to meet the objectives?

A. Structured scripting

B. Capture-replay scripting

C. Data-driven scripting

D. Model-based scripting

Correct Answer: B

Reference: https://www.professionalqa.com/capture-tool