Chirea Short Questions Liviu Short Questions

Qni Black-Box Testing is a method of software testing that examines the functionality of an application without paring into its internal structures or workings. Equivalence classes refers to a technique that divides the input data of a software unit into portitions of equivalent dat from which tests can be derived by trying to cover each partition at least once.

Example: A Login functionality: we can divide usermames into 3 partitions.

, Volid usernames John 123

. Involid usernames @ John !!

· Edge lases such as trying the min. I max. length

Re: White-Box Testing is a software testing technique that involves examining the internal structure, coole, and logic of the system being tested. With the knowledge of the internal workings, we can design test cases that exercise specific paths in the code. Iredicate overage is a criterion used in white box testing to ensure that every sollean condition in the wate is evaluated to both true and lalse of host are.

Example: It a function checks whither a member is prime, we meed:

· filme Case - 7,11,52) true · Non-Prime Case - 2,4,12=) blse Ps: Symbolic execution is a White-Box Testing technique that values explores the different paths of a program by using symbolic values instead of convicte inputs. It allows for systematic exploration of all conditions and branches by treating inputs as symploss and tracking their constraints. A tree is a representation of these paths, put together in a free-like structure. Each poth in the tree represents a unique scenario based on imputs and the conditions encountered.

Example: We by gracenies. If we have no bruits at all, we by 2 bananas. If we have one banana, wely only one more. If we have >2 banamas, we buy an apple: Banama <3

Qu: Model checking is a testing technique used to venity whothen a given system or model satisfies a set of specified properties. It tries to explore all possible states of a system to leck it certain properties had or ith there are any violations. Liveness properties are a type of behaviors in a system, lowing an the occurrence of events or the progress of the system over time.

true folso buy 2 by 1 banana, banana

Example: il we have LI-) Lz (when Listrugthen Lzis true, looking for any possible outer-example that would indicate a bug.