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Assignment 7

The due date for submitting this assignment has passed.

Due on 2020-11-04, 23:59 IST.

Assignment submitted on 2020-11-04, 21:53 IST

1) State true or false: In functional testing, decision tables handle multiple inputs by considering different combinations of equivalence classes, with conditions handling the combinations. ***1 point***

- (●) True.
- ( ) False.

Yes, the answer is correct.
Score: 1
Accepted Answers:
True.

2) In boundary value analysis, if the partition of inputs specifies an ordered set, which of the following best describes the guidelines to be used to choose test case inputs? ***1 point***

- ( ) Construct test cases by specifying boundary points.
- ( ) Construct test cases at the boundary of each partition.
- ( ) Construct test cases by choosing minimum and maximum values.
- (●) Construct test cases by choosing the first and the last elements of the set.

Yes, the answer is correct.
Score: 1
Accepted Answers:
Construct test cases by choosing the first and the last elements of the set.

3) In equivalence class based testing, how does each partition help in testing? ***1 point***

- When the program under test is run on any input from each partition, it will produce the same output.
- Any input from each partition is good enough to test the program, it serves as a good source for selecting inputs.

No, the answer is incorrect.
Score: 0
Accepted Answers:
When the program under test is run on any input from each partition, it will produce the same output.

4) Which of the following is a formula for calculating the number of test cases for t-wise coverage? In the options below, n is the number of partitions and B_i is number of blocks for each partition. ***1 point***

- $Max_{i=1}^{n} B_i$.
- $(Max_{i=1}^{n} B_i)^t$.

Yes, the answer is correct.
Score: 1
Accepted Answers:
$(Max_{i=1}^{n} B_i)^t$.

5) Which of the following represents a correct order of subsumption among coverage criteria for input space partitioning? In the options below, read → as "subsumes". ***1 point***

- Pair-wise coverage → Base choice coverage → Each choice coverage.
- Multiple base choice coverage → Base choice coverage → Each choice coverage.
- Each choice coverage → Base choice coverage → All combinations coverage.
- All combinations coverage → Base choise coverage → Pair-wise coverage.

Yes, the answer is correct.
Score: 1
Accepted Answers:
Multiple base choice coverage → Base choice coverage → Each choice coverage.

6) State true or false: Pair-wise coverage and T-wise coverage criteria consider the functionality and interfaces while considering combinations. ***1 point***

- True.
- False.

Yes, the answer is correct.
Score: 1
Accepted Answers:
False.

For the following four questions, consider a function called **`NextDate`** which takes as input a valid date in mm/dd/yyyy (month followed by date followed by year) format and computes the date of the next day. For example, given 06/14/1996, the **`NextDate`** function will return 06/15/1996 and when given 02/28/2019, the **`NextDate`** function will return 03/01/2019. Answer the following questions regarding input space partitioning test cases for the **`NextDate`** function.

7) What are the variables involved in the **`NextDate`** function input? ***1 point***

- Month, day and year.

- (●) Date containing month, day and year.
- ( ) Today's date.
- ( ) Range of dates.

Yes, the answer is correct.
Score: 1
Accepted Answers:
Date containing month, day and year.

8) Which of the following are valid partitions for day, as a part of the input to **`NextDate`** function? ***1 point***

- ( ) Only one partition: 1 ≤ day ≤ 31.
- ( ) Two partitions: (1) day > 1 and (2) 30 ≤ day ≤ 31.
- ( ) Three partitions: (1) 1 ≤ day ≤ 29, (2) day = 30 and (3) day = 31.
- (●) Four partitions: (1) 1 ≤ day ≤ 28, (2) day = 29, (3) day = 30 and (4) day = 31.

Yes, the answer is correct.
Score: 1
Accepted Answers:
Four partitions: (1) 1 ≤ day ≤ 28, (2) day = 29, (3) day = 30 and (4) day = 31.

9) State true or false: The partition ***1 point***

(1){month: month has 30 days}, (2){month: month has 31 days}, (3){month: month is February}

is a valid partition for month as a part of input to **`NextDate`** function?

- (●) True.
- ( ) False.

Yes, the answer is correct.
Score: 1
Accepted Answers:
True.

10) Is the partition: { Year is a common year, Year is a leap year, Year is 2000 }, a valid partition for year as a part of the input to the **`NextDate`** function? ***1 point***

- (●) Yes.
- ( ) No.

Yes, the answer is correct.
Score: 1
Accepted Answers:
Yes.