<u>Dashboard</u> / My courses / <u>T1-24-25-CSE 731</u> / <u>General</u> / <u>CSE731-Software-Testing-T1-24-25-Quiz2-Set I</u>

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Started on	Thursday, 14 November 2024, 3:30 PM
State	Finished
Completed on	Thursday, 14 November 2024, 3:59 PM
Time taken	28 mins 58 secs
Grade	<b>10.50</b> out of 15.00 ( <b>70</b> %)
Question <b>1</b>	
Correct	
Mark 1.00 out of 1.00	
<ul><li>b. Two tests.</li><li>c. Four tests.</li><li>d. Three tests</li></ul> The correct answer	
Question <b>2</b> Correct Mark 1.00 out of 1.00	
a. It will weak	nput (numbers, val) = ([1,2],1) do for the mutant given in the description?  ly kill the mutant.  gly kill the mutant.  **  **  **  **  **  **  **  **  **

Question <b>3</b>	
Correct	
Mark 1.00 c	out of 1.00
	of the following represents a correct order of subsumption among coverage criteria for input space partitioning? In the options read→as `subsumes'.
О а.	Pair-wise coverage → Base choice coverage → Each choice coverage.
O b.	Each choice coverage $ ightarrow$ Base choice coverage $ ightarrow$ All combinations coverage
O c.	All combinations coverage → Base choice coverage → Pair-wise coverage
d.	Multiple base choice coverage → Base choice coverage → Each choice coverage ✔
	rect answer is: e base choice coverage → Base choice coverage → Each choice coverage
Question <b>4</b>	
Correct	
Mark 1.00 d	out of 1.00
	The mutant is reachable only if the array is not null.  The mutant is always reachable even if the array is null.  ✓
O d.	The mutant is not reachable at all.
	rect answer is: tant is always reachable even if the array is null.
Question <b>5</b> Correct	
Mark 1.00 c	out of 1.00
State tr combin	
○ True	
False	
The cor	rect answer is 'False'.

Information
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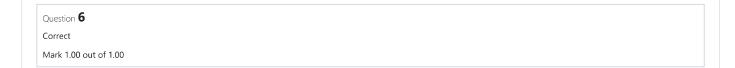
Answer the following questions based on the characteristics and blocks given in the table below.

## **Partitions-table**

## Characteristic Block-1 Block-2 Block-3 Block-4

Value1 < 0 0 > 0 Value2 < 0 0 > 0 Operation + - \*

Answer the questions on ISP based on this table.



With reference to the table given in the description, how many tests are required to satisfy the All combinations criterion?

- a. 27 tests.
- b. 32 tests.
- c. 48 tests.
- d. 36 tests.

  ✓

The correct answer is:

36 tests.

Question  ${\bf 7}$ 

Correct

Mark 1.00 out of 1.00

Mutation of the statement `if (x < 3 && y >= 0)' to the statement `if (x <= 3 && y >= 0)' is an example of which kind of mutation operator?

- a. Relational operator replacement
- b. Arithmetic operator replacement.
- c. Relational operator insertion.
- Od. Conditional operator replacement.

The correct answer is:

Relational operator replacement

For boundary value analysis to be applied to a set of inputs, which of the following must be true?  a. There must be values just outside the input range, inputs need not be ordered. b. Inputs must be from an ordered set, there must be values just outside the input range. c. Boundary values must be well-defined, inputs can be from any kind of set.  d. It all depends on the requirements, inputs can be from any set.  The correct answer is: Inputs must be from an ordered set, there must be values just outside the input range.  Authority or or an ordered set, there must be values just outside the input range.  With reference to the table given in the ISP description, how many tests are required to satisfy the Base Choice criterion? Assume that the base choices are Value1 > = 0, Value2 > = 0 and +.  a. Six tests. b. b. Seven tests   c. Eight tests.  d. Five tests.  The correct answer is: Eight tests.	Incorrect Mark 0.00 o	
For boundary value analysis to be applied to a set of inputs, which of the following must be true?  a. There must be values just outside the input range, inputs need not be ordered. b. Inputs must be from an ordered set, there must be values just outside the input range. c. Boundary values must be well-defined, inputs can be from any kind of set.  d. It all depends on the requirements, inputs can be from any set.  The correct answer is: Inputs must be from an ordered set, there must be values just outside the input range.  Discrete 9  Writing correct  deriv 0.50 out of 100  With reference to the table given in the ISP description, how many tests are required to satisfy the Base Choice criterion? Assume that the base choices are Value1 > = 0, Value2 > = 0 and *.  a. Six tests. b. Seven tests.  b. Seven tests.  c. Eight tests. d. Five tests.  The correct answer is: Eight tests.  c. Light tests.  Select one: True False: V	IVIAIR U.UU C	ut of 1 00
a. There must be values just outside the input range, inputs need not be ordered. b. Inputs must be from an ordered set, there must be values just outside the input range. c. Boundary values must be well-defined, inputs can be from any kind of set. d. It all depends on the requirements, inputs can be from any set.  The correct answer is: Inputs must be from an ordered set, there must be values just outside the input range.  Descing 9  Auritally correct  draft 0.50 out of 1.00  With reference to the table given in the ISP description, how many tests are required to satisfy the Base Choice criterion? Assume that the base choices are Value1 > = 0, Value2 > = 0 and +.  a. Six tests. b. Seven tests  c. Eight tests. d. Five tests.  The correct answer is: Eight tests.  d. Five tests.  State true or false: The test input (numbers, val) = ((1.1),1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one: True False  False		ut of 1.00
a. There must be values just outside the input range, inputs need not be ordered. b. Inputs must be from an ordered set, there must be values just outside the input range. c. Boundary values must be well-defined, inputs can be from any kind of set. d. It all depends on the requirements, inputs can be from any set.  The correct answer is: Inputs must be from an ordered set, there must be values just outside the input range.  Descing 9  Auritally correct  draft 0.50 out of 1.00  With reference to the table given in the ISP description, how many tests are required to satisfy the Base Choice criterion? Assume that the base choices are Value1 > = 0, Value2 > = 0 and +.  a. Six tests. b. Seven tests  c. Eight tests. d. Five tests.  The correct answer is: Eight tests.  d. Five tests.  State true or false: The test input (numbers, val) = ((1.1),1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one: True False  False		
<ul> <li>b. Inputs must be from an ordered set, there must be values just outside the input range.</li> <li>c. Boundary values must be well-defined, inputs can be from any kind of set. ★</li> <li>d. It all depends on the requirements, inputs can be from any set.</li> </ul> The correct answer is: Inputs must be from an ordered set, there must be values just outside the input range.  Diagnostic 9  Autrilly correct Arate 050 out of 1.00  With reference to the table given in the ISP description, how many tests are required to satisfy the Base Choice criterion? Assume that the base choices are Value1 > = 0, Value2 > = 0 and +.  a. Six tests.  b. Seven tests.  c. Eight tests.  d. Five tests.  The correct answer is: Eight tests.  Substant 10  Correct Arate 100 out of 1.00  State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  True  False ✓  False ✓  True  False ✓  The false Input from an ordered set, there must be values just outside the input range.  **The correct answer is:  The correct answer	For bou	ndary value analysis to be applied to a set of inputs, which of the following must be true?
© c. Boundary values must be well-defined, inputs can be from any kind of set.   ① d. It all depends on the requirements, inputs can be from any set.  The correct answer is: Inputs must be from an ordered set, there must be values just outside the input range.  Available correct  Available correc	○ a.	There must be values just outside the input range, inputs need not be ordered.
d. It all depends on the requirements, inputs can be from any set.  The correct answer is: Inputs must be from an ordered set, there must be values just outside the input range.  With reference to the table given in the ISP description, how many tests are required to satisfy the Base Choice criterion? Assume that the base choices are Value1 >= 0, Value2 >= 0 and +.  a. Six tests.  b. Seven tests.  c. Eight tests.  d. Five tests.  The correct answer is: Eight tests.  Substitute to or false. The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one: True  False  False   False	O b.	Inputs must be from an ordered set, there must be values just outside the input range.
The correct answer is: Inputs must be from an ordered set, there must be values just outside the input range.  Section 9  Partially correct  dark 0.50 out of 1.00  With reference to the table given in the ISP description, how many tests are required to satisfy the Base Choice criterion? Assume that the base choices are Value1 >= 0, Value2 >= 0 and +.  a. Six tests. b. Seven tests 2  c. Eight tests. d. Five tests.  The correct answer is: Eight tests.  Section 10  Correct  Again 1.00 out of 1.00  State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  True  False  False	C.	Boundary values must be well-defined, inputs can be from any kind of set.  ★
Consistence 9 Cartally cornect Mark 0.50 out of 1.00  With reference to the table given in the ISP description, how many tests are required to satisfy the Base Choice criterion? Assume that the base choices are Value1 >= 0, Value2 >= 0 and +.  a. Six tests. b. Seven tests. c. Eight tests. d. Five tests.  The correct answer is: Eight tests.  Consistent 10 Cornect Mark 1.00 out of 1.00  State true or false: The test input (numbers, val) = ((1,1),1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one: True False ✓	O d.	It all depends on the requirements, inputs can be from any set.
Arrially correct Mark 0.50 out of 1.00  With reference to the table given in the ISP description, how many tests are required to satisfy the Base Choice criterion? Assume that the base choices are Value1 >= 0, Value2 >= 0 and ±.  a. Six tests.  b. Seven tests.  c. Eight tests.  d. Five tests.  The correct answer is: Eight tests.  Description 10  Correct Mark 1.00 out of 1.00  State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  True  False  False  False		
the base choices are Value1 >= 0, Value2 >=0 and +.  a. Six tests. b. Seven tests. c. Eight tests. d. Five tests.  The correct answer is: Eight tests.  Duestion 10 Correct Mark 1.00 out of 1.00  State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one: True False ✓		
the base choices are Value1 >= 0, Value2 >=0 and +.  a. Six tests. b. Seven tests. c. Eight tests. d. Five tests.  The correct answer is: Eight tests.  Duestion 10 Correct Mark 1.00 out of 1.00  State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one: True False ✓		
<ul> <li>c. Eight tests.</li> <li>d. Five tests.</li> </ul> The correct answer is: Eight tests.  Eight tests.  Question 10 Correct Mark 1.00 out of 1.00  State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  True  False ✓  False ✓  True  False ✓  False ✓  True  False ✓  True  True  False ✓  True  False ✓  True  False ✓  True  True  False ✓  True  False ✓  True  False ✓  True  True  False ✓  True  True  True  False ✓  True  True  True  True  True  True  False  True	the base	e choices are Value1 >= 0, Value2 >=0 and +.  Six tests.
Od. Five tests.  The correct answer is: Eight tests.  Dependent of 10  Correct  Mark 1.00 out of 1.00  State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  True  False ✓	<ul><li>b.</li></ul>	Seven tests.   Seven
The correct answer is:  Eight tests.  Duestion 10 Correct Mark 1.00 out of 1.00  State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  True  False ✓	O c.	Eight tests.
Eight tests.  Question 10 Correct Mark 1.00 out of 1.00  State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  ☐ True  ☐ False ✔	O d.	Five tests.
State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  True  False   False		
State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  ☐ True  ☐ False ✔		0
State true or false: The test input (numbers, val) = ([1,1],1) will, strongly kill the mutant in line 4 for the program given in the description.  Select one:  ☐ True  ☐ False ✔	Correct	
description.  Select one:  ☐ True  ☐ False ✓	10 rl 1 00 0	ut of 1.00
<ul><li>□ True</li><li>■ False </li></ul>	Mark 1.00 o	
■ False	State tru	
	State tru descript	tion.
The correct answer is 'False'.	State tro	one:
	State tro descript Select o	one:
	State tro descript Select o True	tion. one:

uestion <b>11</b>	
correct	
1ark 0.00 out	of 1.00
State true	or false:Mutation testing subsumes all combinations logic coverage criterion.
Select on	e:
True 1	
<ul><li>False</li></ul>	
The corre	ct answer is 'False'.
uestion <b>12</b>	
ncorrect	
1ark 0.00 out	of 1.00
	of mutation operators for source code, the Boolean constants True and False can be used to hich of the following operators?
○ a. 1	hey can replace relational operators only.
O b. 1	hey can replace conditional operators only.
○ c. 7	hey can replace logical operators only. 🗙
O d. 1	hey can replace both logical and relational operators.
	ct answer is: replace both logical and relational operators.
uestion 13	
orrect	
1ark 1.00 out	of 1.00
	or false: While doing functional testing of a program, it is always possible to map the program's inputs as test case inputs program's outputs as the test case outputs.
Select on	e:
True	
● False	
The corre	ct answer is 'False'.

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la a a susa at	
Incorrect	
Mark 0.00 c	ut of 1.00
State ye descrip	es or no: It is always possible to find a test input that satisfies reachability but not infection for the mutant in line 4 given in the tion?
a.	Yes. ×
O b.	No.
The cor No.	rect answer is:
Information	
// Else, 1. publi 2. {	ts: If array numbers is null, throw NullPointerException. return LAST occurrence of val in numbers[]. If val is not in numbers[], return -1. c static int findVal(int numbers[], int val) findVal = -1;
4. for 4'. //† 5. 6.	(int i = 0; i < numbers.length; i++)  for (int i = 1; i < numbers.length; i++)  if (numbers[i] == val)      findVal = i;  urn (findVal);
4. for 4'. // 1 5. 6. 7. retu	(int i = 0; i < numbers.length; i++)  for (int i = 1; i < numbers.length; i++)  if (numbers[i] == val)      findVal = i;  urn (findVal);
4. for 4'. // f 5. 6. 7. retu 8. }  Question 1: Correct Mark 1.00 c	(int i = 0; i < numbers.length; i++) for (int i = 1; i < numbers.length; i++) if (numbers[i] == val)
4. for 4'. // f 5. 6. 7. retu 8. }  Question 1: Correct Mark 1.00 c	(int i = 0; i < numbers.length; i++) for (int i = 1; i < numbers.length; i++) if (numbers[i] == val)
4. for 4'. // 1 5. 6. 7. retu 8. }  Question 1 Correct  Mark 1.00 c  While u process  a.	(int i = 0; i < numbers.length; i++)  for (int i = 1; i < numbers.length; i++)  if (numbers[i] == val)
4. for 4'. // f 5. 6. 7. retu 8. }  Question 1: Correct  Mark 1.00 c  While u process  a. b. c.	(int i = 0; i < numbers.length; i++) for (int i = 1; i < numbers.length; i++) if (numbers[i] == val)
4. for 4'. // f 5. 6. 7. retu 8. }  Question 1: Correct  Mark 1.00 c  While u process  a. b. c.	(int i = 0; i < numbers.length; i++) for (int i = 1; i < numbers.length; i++) for (int i = 1; i < numbers.length; i++) if (numbers[i] == val)
4. for 4'. // f 5. 6. 7. retu 8.}  Question 1: Correct Mark 1.00 c  While u process  a. b. c. d.	(int i = 0; i < numbers.length; i++) for (int i = 1; i < numbers.length; i++) if (numbers[i] == val)
4. for 4'. // f 5. 6. 7. retu 8. }  Question 1: Correct Mark 1.00 c  While u process  a. b. c. d.  The corr Usually	(int i = 0; i < numbers.length; i++) for (int i = 1; i < numbers.length; i++) if (numbers[] == val)     findVal = i;  urn (findVal);

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