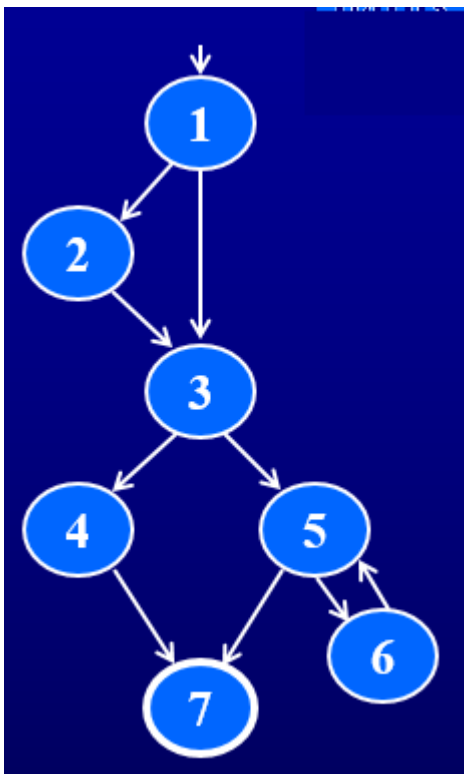


Quiz-2-Spring-2021

Questions

There are 25 MCQ questions. Each of them have point value 1.

Which of the following paths is prime path for the following graph?



- ☐ $p=[1,3,5]$
- ☐ $p=[1,2,3]$
- ☒ $p=[1,2,3,4,7]$
- ☐ $p=[3,5,6,5,7]$

Clear selection



For the following predicate, if we apply CACC how many pairs will be selected?

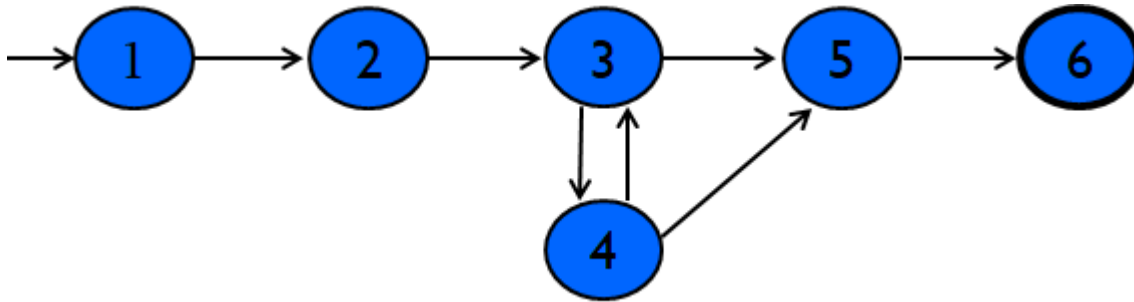
	a	b	c	$a \wedge (b \vee c)$
1	T	T	T	T
2	T	T	F	T
3	T	F	T	T
4	T	F	F	F
5	F	T	T	F
6	F	T	F	F
7	F	F	T	F
8	F	F	F	F

- ☐ 6
- ☐ 3
- ☐ 12
- ☒ 9

Clear selection



Let $P1=\{1,2,3,5,6\}$ and $P2=\{1,2,3,4,3,5,6\}$ for the following graph. $P2$ is called touring with a _____.



☐ detours

☒ sidetrips

Clear selection

Consider the function: `public boolean findElement (List list, Object element).`
Now for IDM, which of the following characteristics belong to the interface based approach?

☐ element occurs last in list

☒ number of occurrences of element in list (0, 1, >1)

☐ list is null

☐ element occurs first in list

??

For which of the followings the output of the expression, $p = a \oplus b$ will be true?

☒ $a=0, b=0$

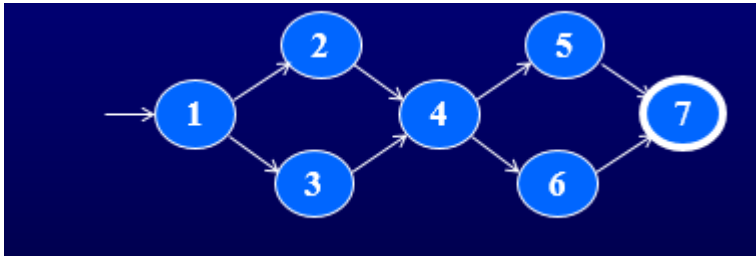
☐ $a=1, b=1$

☒ $a=0, b=1$

☒ $a=1, b=0$



How many test paths are present in the following graph?



☐ 5

☒ 4

☐ 6

☐ 9

Clear selection

Which of the following is not part of the Input Domain?

☐ Parameters to a method

☒ Counter variable of a loop.

☐ Data read from a file

☐ User Level inputs

Clear selection

If a variable x appears as an input, then it is considered as _____ of x.

☐ use

☒ def

Clear selection



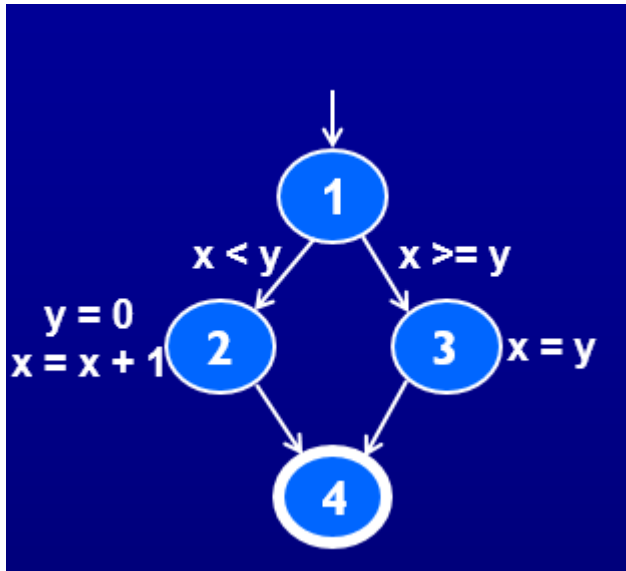
Suppose, while doing ISP you have identified 3 characteristics and partitioned each of them into {3,4,3} blocks. Now for Pair-Wise Choice Coverage (PWC) there will be at least _____ test cases.

- ☐ 24
- ☐ 4
- ☐ 9
- ☐ 36
- ☒ 12

Clear selection



The following graph can be constructed from which of the following code segment.



```

if (x < y)
{
    y = 0;
    x = x + 1;
}
else if(x>y)
{
    x = y;
}
else
{
    y = x;
}
  
```

☐ type-3

```

if (x < y)
{
    y = 0;
    x = x + 1;
}
  
```

☐ type-2

```

if (x < y)
{
    y = 0;
    x = x + 1;
}
else if(x>y)
{
    x = y;
}
  
```

☐ type-4

```

if (x < y)
{
    y = 0;
    x = x + 1;
}
else
{
    x = y;
}
  
```

☒ type-1

Clear selection



A procedure that decides whether a given set of test values satisfies a criterion is called _____.

- ☐ Generator
- ☒ Recognizer
- ☐ Test cases
- ☐ Test Ratios

Clear selection

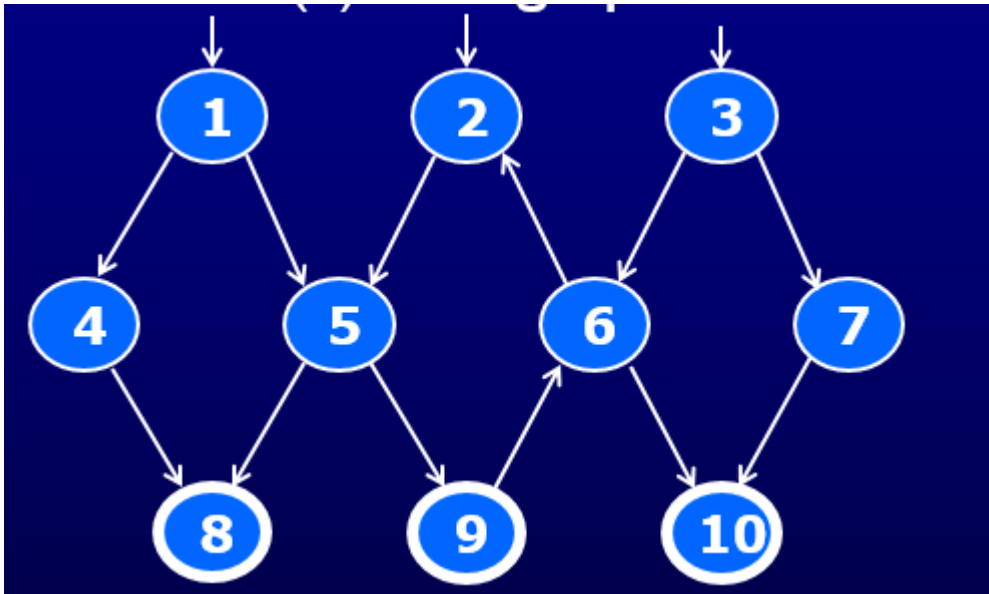
If a variable x is a formal parameter of a method, then it is considered as _____ of x.

- ☐ use
- ☒ def

Clear selection



Which of the following is test path for the following graph?



- ☒ $p=[3,6,2,5,9]$
- ☐ $p=[3,6,2]$
- ☐ $p=[2,5,9,6,2]$
- ☐ $p=[9,6,2]$

Clear selection

A single node is a path of length _____

- ☐ None of the options
- ☐ 1
- ☒ 0
- ☐ 2

Clear selection



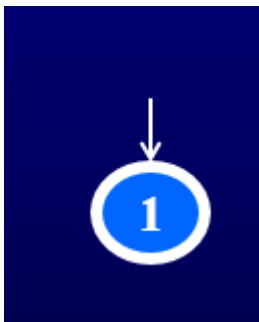
Suppose, while doing ISP you have identified 3 characteristics and partitioned them into {3,4,6} blocks. Now for Each Choice Coverage(ECC) there will be at least _____ test cases.

- ☐ 15
- ☐ 3
- ☒ 6
- ☐ 125
- ☐ 4
- ☐ 30

??

Clear selection

Which of the following options is false for the following graph?

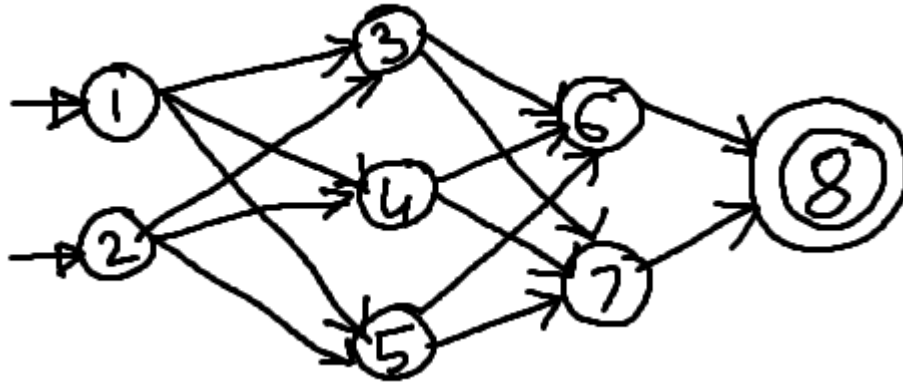


- ☐ $N=\{1\}$
- ☐ $N_f = \{ 1 \}$
- ☒ $E=\{1,1\}$
- ☐ $N_0 = \{ 1 \}$

Clear selection



How many test paths are present in the following graph?



- ☐ 32
☐ 24
☐ 6
☐ 8
☒ 12
☐ 28

Clear selection

How many clauses are present in the following Predicate, $P = ((f \leq g) \wedge (X > 0)) \vee (M \wedge (e < d + c))$?

- ☐ 8
☒ 4
☐ 2
☐ 3
☒ 5
☐ 1

??

Clear selection



In PMSCS-670, we usually model a software in _____ ways.

☐ 5

☐ 3

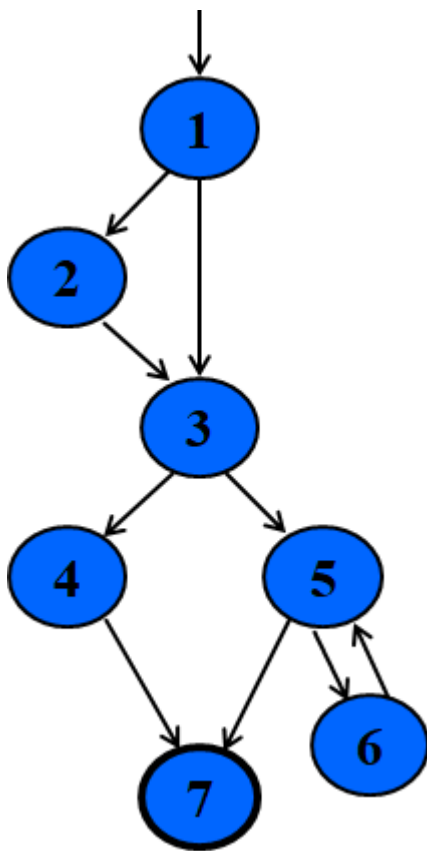
☐ 4

☒ 2

Clear selection



Let, $TR = \{ [1,2,3], [1,3,4], [1,3,5], [2,3,4], [2,3,5], [3,4,7], [3,5,6], [3,5,7], [5,6,5], [6,5,6], [6,5,7] \}$ for the following graph. TR is equivalent to the which of the followings coverage strategy?

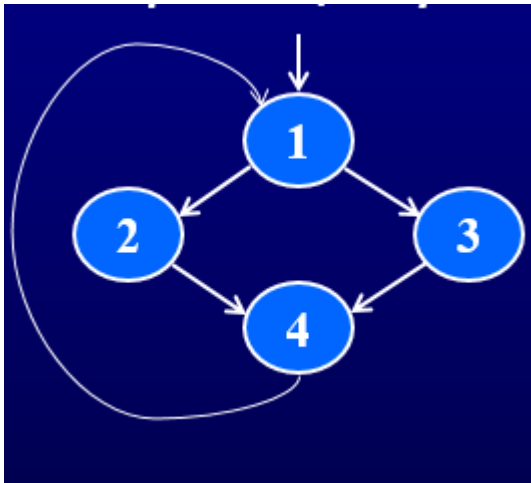


- ☒ Edge Pair Coverage
- ☐ Complete Path Coverage
- ☐ Node Coverage
- ☐ Edge Coverage

Clear selection



Which of the following paths is not a simple path for the following graph?



☐ $p=[3,4,1,2]$

☐ $p=[2,4,1,2]$

☒ $p=[2,4,1,3,4]$

☐ $p=[3,4,1]$

Clear selection

Does PPC Subsume EPC?

☒ No

☐ Yes

Clear selection



ISP can be applied to _____.

☐ Acceptance Testing

☒ Unit Testing

☒ System Testing

☐ Load Testing

☐ Performance Testng

☒ Integration Testing

Let $P = A \wedge B$, if A is active clause then what should be the value of B?

☐ True

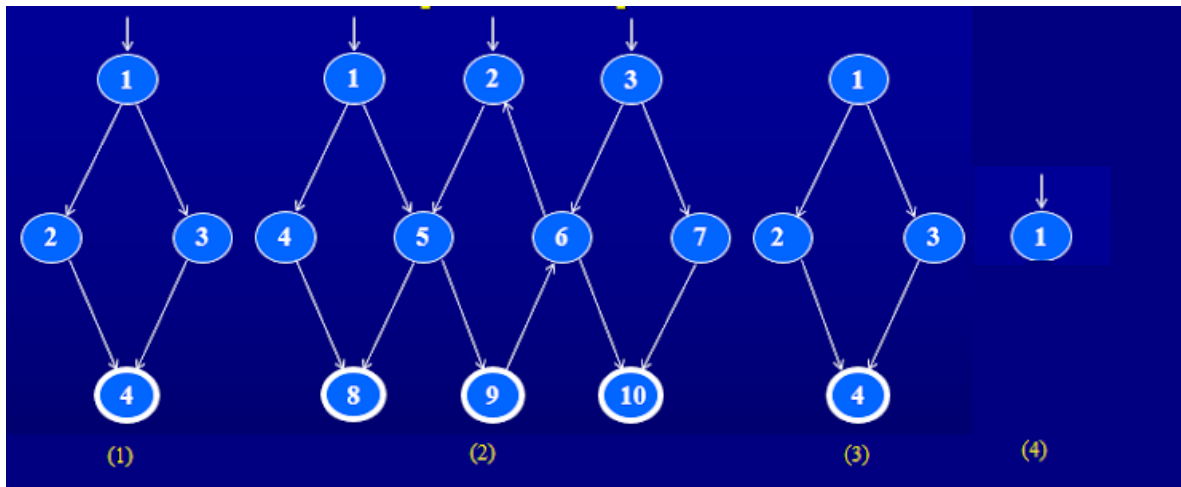
☐ Any of the options

☒ False

Clear selection



Which of the followings is not a valid graph?



☒ (3)

☐ (2)

☐ (4)

☐ (1)

Clear selection

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