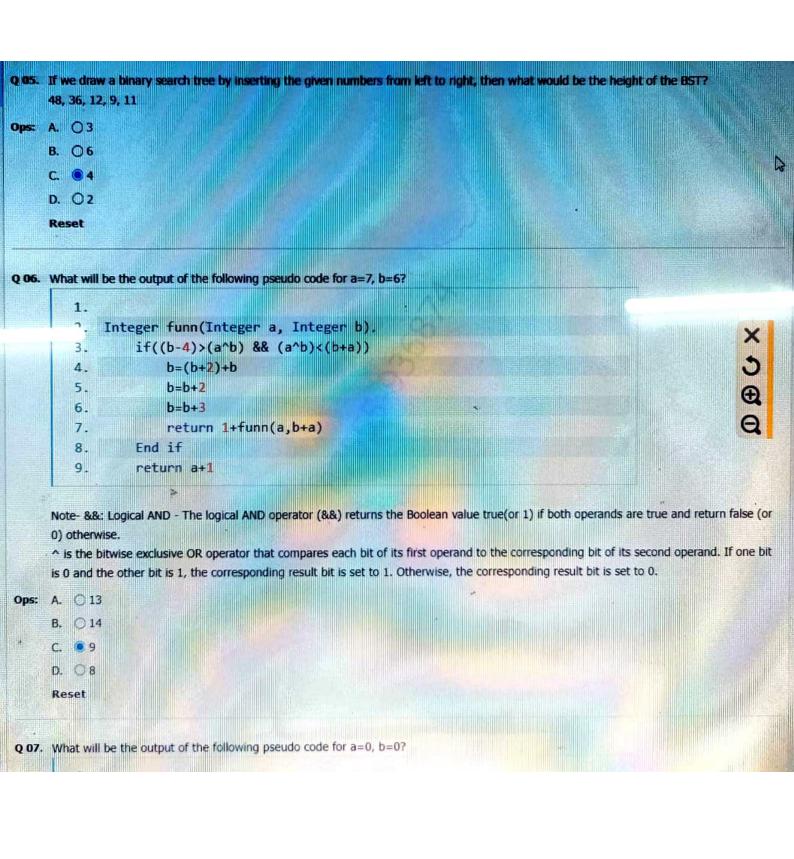
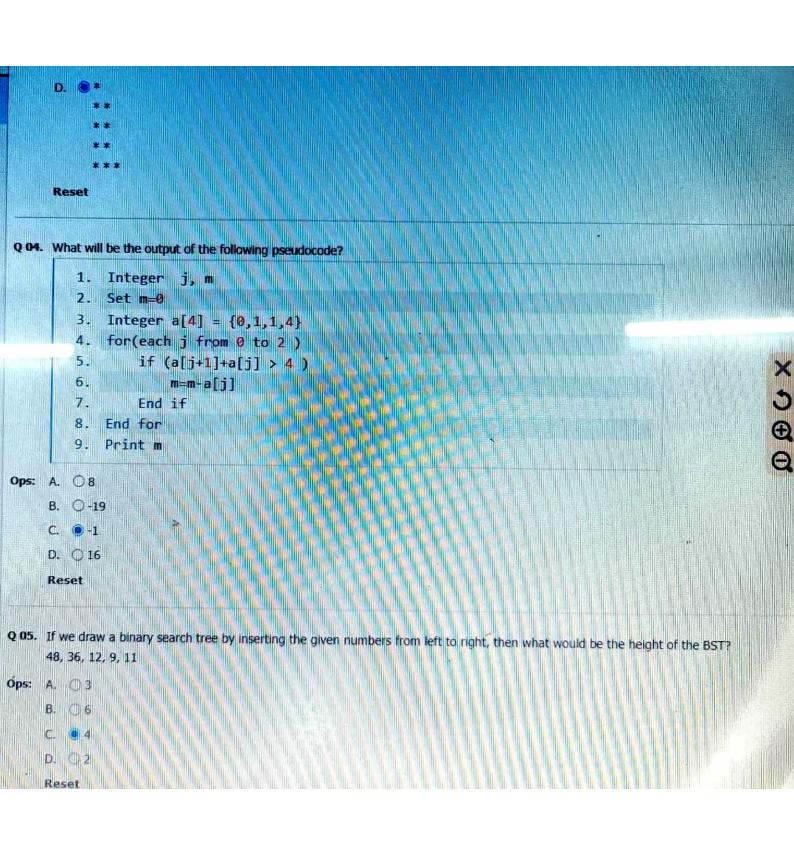
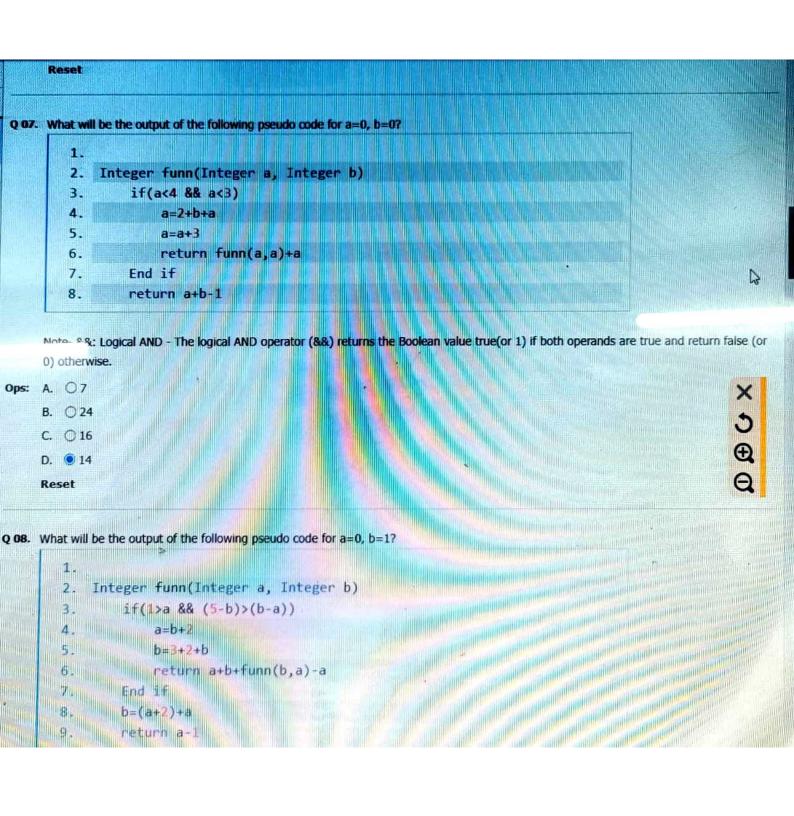
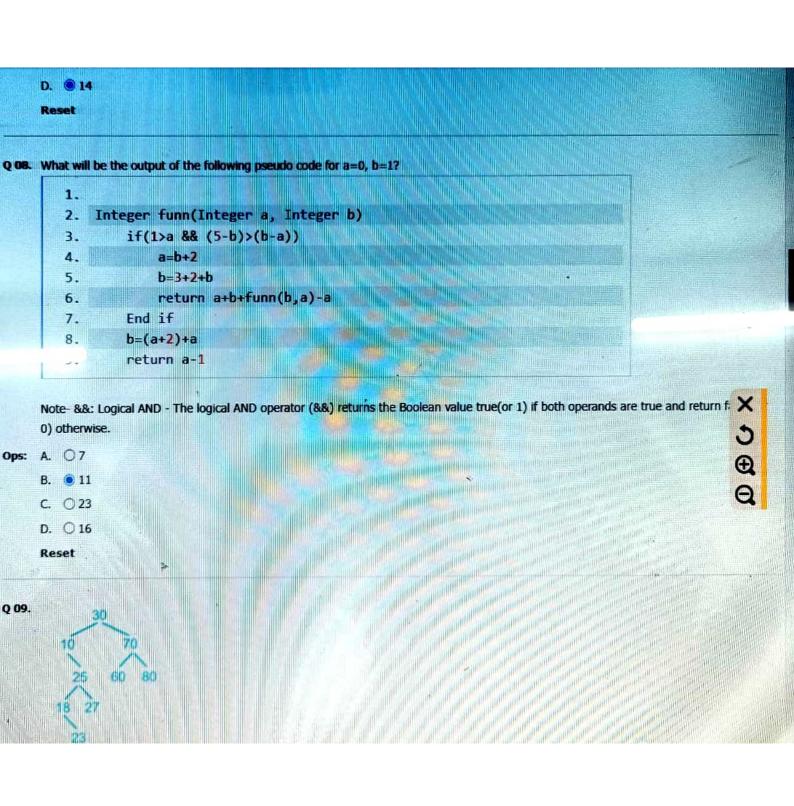


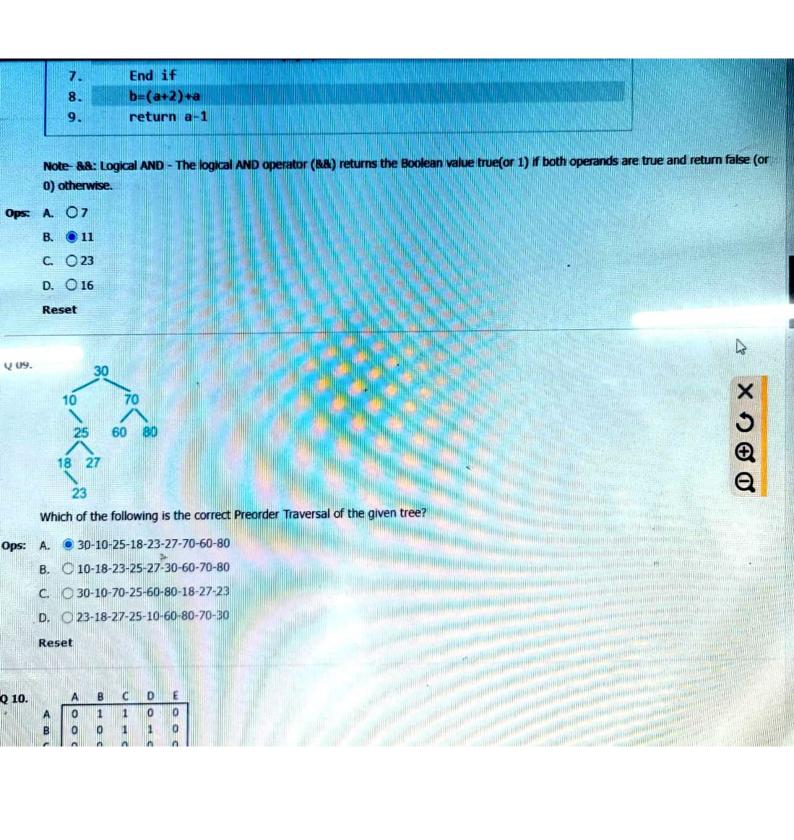
```
Q 03. What will be the output of the following pseudo code?
         1.
             Integer n
         2.
             Set n = 5
             for (each i from 1 to n)
         3.
         4.
                  for (each j from 1 to i)
         5.
                      if j == 0 || j == i - 1
         6.
        7.
                      Else
                           if i != n
         8.
         9.
                               Print("
       10.
                          Else
       11.
                               Print("*",
                                           end="
       12.
                           End if
                      End if
       13.
       14.
                  End for
                 Print()
       15.
       16.
             End for
Ops: A.
     B. ()
```

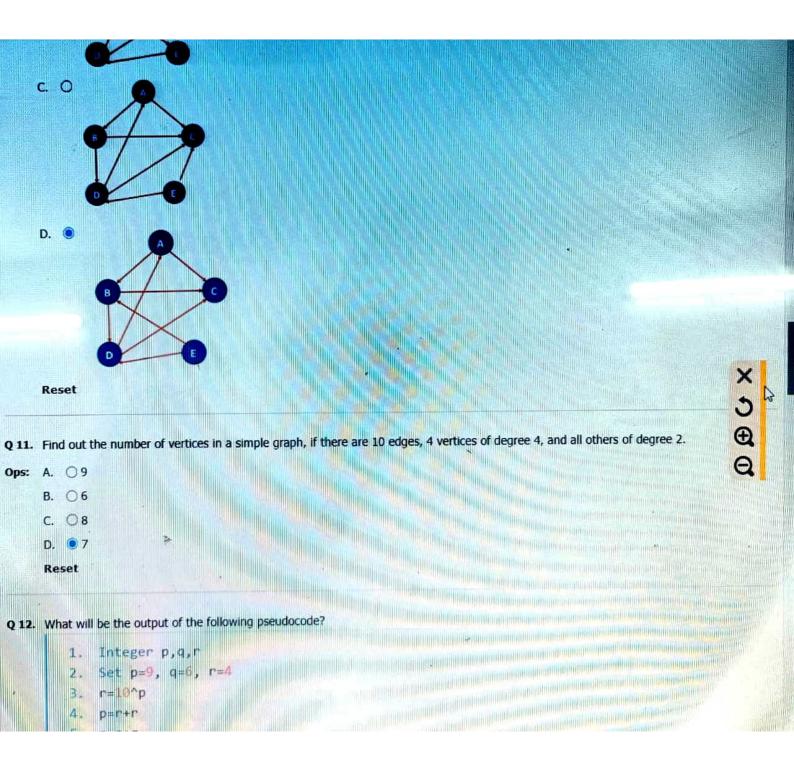












Q 33. Find out the number of vertices in a simple graph, if there are 16 religes, 4 vertices of degree 4, and all others of degree 2.

A 09 B 06 C 08

A. C 23

C. Q3 D. Q11 Reset

Q 13. What will be the output of the following pseudo code?

Q 13. What will be the output of the following pseudo code?

```
1. Integer p,q,r
```

10.
$$p=(r+p)+q$$

12.
$$q=(p+3)+q$$

Ops: A. ○ 31

Reset

Q 14. What will be the output of the following pseudo code?

4.
$$pp=(qq&4)+pp$$

× 5 A Q

```
Q 14. What will be the output of the following pseudo code?
         1.
             Integer pp,qq,rr
             Set pp=1, qq=2, rr=10
         2.
             if((qq&rr)<pp)
         3.
                  pp=(qq&4)+pp
         4.
             Else
         5.
                  rr=(rr+pp)&rr
         6.
         7.
                  if((rr+qq+pp)<(9-rr))
         8.
                      rr=qq+qq
        9.
                  Else
       10.
                      rr=(12^4)+rr
                 End if
       11.
       12.
             End if
             Print pp+qq+rr
       13.
```

Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0. ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

Q

Ops:

A. Q 29

B. 019

C. 022

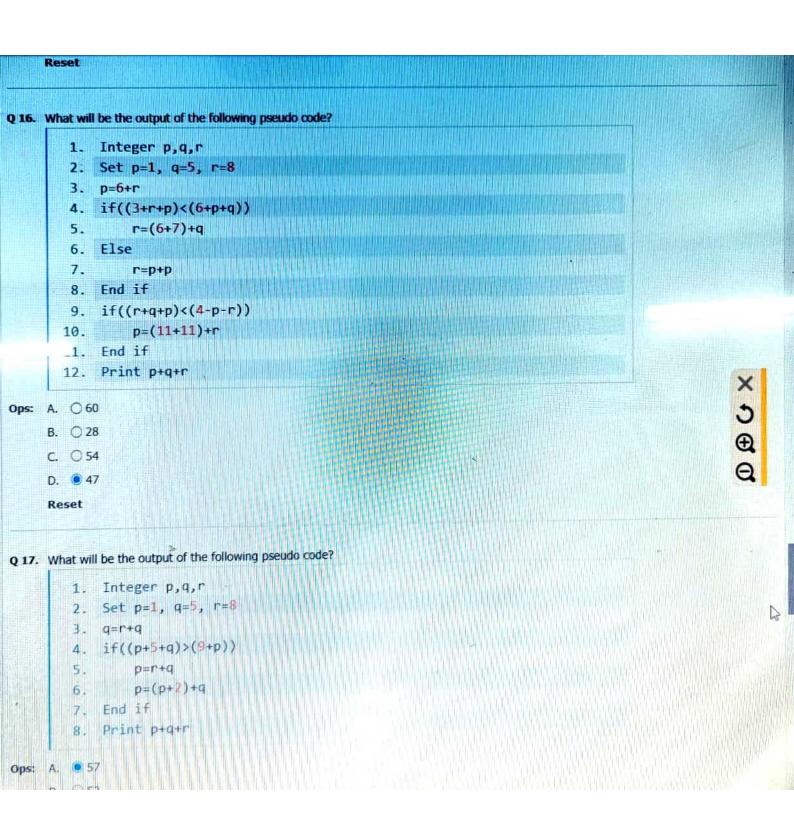
D. 🤵 21

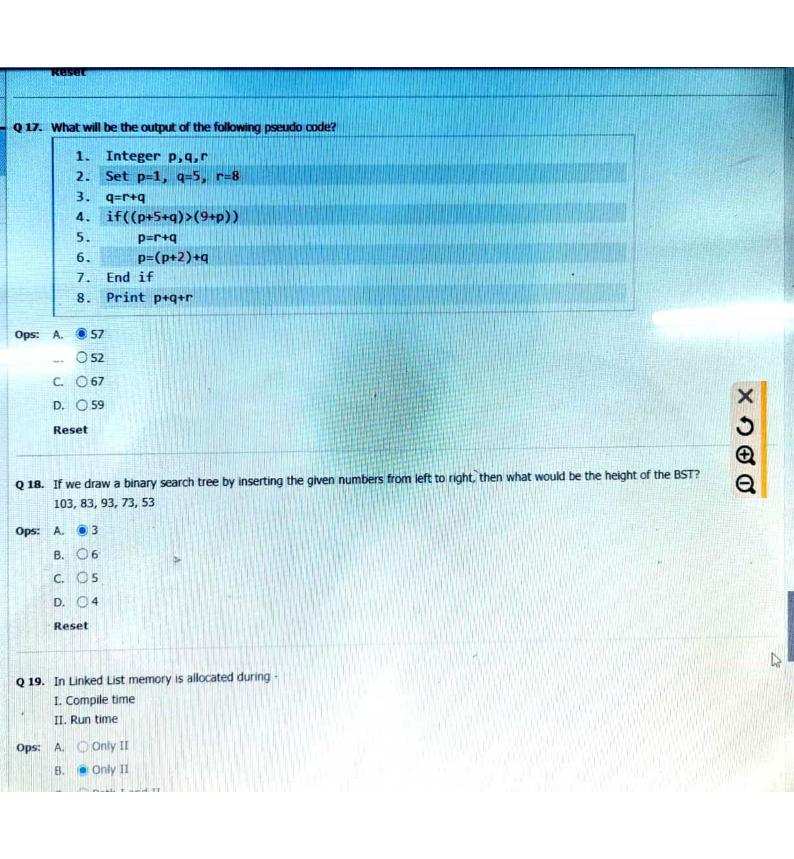
Reset

Q 15. What will be the output of the following pseudo code?

D. 0 21

Q 16. What will be the output of the following pseudo code?





	C. O5
	D. O4
	Reset
Q 19.	In Linked List memory is allocated during -
	I. Compile time II. Run time
Ops:	A. Only II
Орз.	B. Only II
	C. O Both I and II
	D. O Neither I Nor II
	reset .
	X
Q 20.	Find out the number of swappings required for sorting the given numbers in ascending order if you are using bubble sort for sorting
	20, 28, 15, 22, 25 A.
Ops:	A. • 4 B. ○ 5
	B. ○5 C. ○3
	D. Q6
	Reset
Q 21.	What will be the output of the following pseudocode?
	1. String str1="mars",str2="lion"
	2. Print isPalin(str2+str1)+countVowel(str2+str1)
	Note: countVowel(string) returns the number of vowels in the string. Ex- countVowel("okay") returns 2.
	isPalin(string) returns 1 if the string is a palindrame, otherwise returns 0. Ex- isPalin("yyy") returns 1.
Ops:	A. Q.5

Q 22. What will be the output of the following pseudo code?

- 1. Integer a,b,c
- 2. Set a=9, b=5, c=8
- if((1&c)<b || b>c)
- a=(8+5)+b 4.
- End if 5.
- if((b+a)<(c+b))
- 7. $c = (10+2)^c$
- 8. End if
- C=C+C 9.
- 10. Print a+b+c

Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second X operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0. ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0. ||: Logical OR - The logical OR operator (||) returns the Boolean value TRUE(or 1) if either or both operands is TRUE and returns FALSE(or 0) otherwise.

- Ops: A. 042
 - B. 050
 - C. 939
 - D. () 36

Reset

Q 23. What will be the output of the following pseudo code?

- Integer pp,qq,rr
- Set pp=5, qq=4, rr=9
- if(2>pp && 2>pp)

1.	Integer pp,qq,rr	
2.	Set pp=5, qq=4, rr=9	
3.	if(2>pp && 2>pp)	
4.	pp=5+rr	
5.	Else	
6.	qq=8&pp	
7.	rr=(1+4)+rr	
8.	End if	
9.	Print pp+qq+rr	

Note- &&: Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and return false (or 0) otherwise.

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operator both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

× S H

Ops: A. 19

B. 032

C. 022

D. 016

Reset

Q 24. What will be the output of the following pseudocode for a=2, b=1?

Integer funn(Integer a, Integer b)

if(b&a>0)

return funn(b-1,a+2)

4. End if

return b+a

Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

Ops: A. 05

B. ()-1

C. • 4

	C.	
	Q 24. What will be the output of the following pseudocode for a=2, b=1? 1. Integer funn(Integer a, Integer b) 2. if(b&a>0) 3. return funn(b-1,a+2) 4. End if 5. return b+a	
	.ote &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0. Ops: A. ○ 5 B. ○ -1 C. ○ 4 D. ○ 13 Reset	the second X 3 Q Q
	Q 25. The Tree data structure is used for- 1. Manipulating hierarchical data 2. Manipulate sorted lists of data 3. Router algorithms	
	Ops: A. @ 1 & 3 B. @ 1 & 2 C. @ 1, 2 & 3 D. @ 2 & 3 Reset	
Submit	SECTION (6782 Next Section	

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