```
Integer pp,qq,rr
 1.
    Set pp=1, qq=2, rr=10
     if((qq&rr)<pp)
 3.
         pp=(qq&4)+pp
 4.
     Else
 5.
 6.
         rr=(rr+pp)&rr
         if((rr+qq+pp)<(9-rr))
 7.
 8.
             rr=qq+qq
 9.
         Else
10.
             rr=(12^4)+rr
11.
         End if
    End if
12.
    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 one bit 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.

ps: A. 💿 21

B. 019

C. 029

D. 022

Reset

Control of the second

SECTION 02/02

Reset

C. 015

Q 24. What will be the output of the following pseudo code?

```
Integer a,b,c
   Set a=1, b=2, c=10
    if((c+a+b)<(a+b+c))
    c=3+a
       if((c+a+b)>(b+c))
        c=(a+a)+a
        Else
        a=c+a
        End if
        c = (3+3) + a
11.
    Else
12.
        c=(a+b)+a
        if((a-b)<(b-a))
13.
14.
15.
        Else
16.
17.
18.
    End if
```

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Ops:	A. ()															
			//	1												
		B	1		(2)											
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			4													
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		0		0												
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				1												
		0		0												
	D. (iii)															
	J. 😈															

Q 19. What will be the output of the following pseudocode for a=2, b=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

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. ()1:

- B. O-:
- C. ()5
- D 64

Reset

Q 20. Find out the array representation of the given max heap, if the value 30 is deleted from it.

43, 31, 30, 4, 6, 7

Ops: A. 043, 7, 31, 4, 6

- B. 043, 31, 7, 6, 4
- C. (9 43, 31, 7, 4, 6
- D. 043, 31, 4, 7, 6

Reset

Q 21.

Q 04. What will be the output of the following pseudo code for a=7, b=6?

```
1.
2.
   Integer funn(Integer a, Integer b)
        if((b-4)>(a^b) && (a^b)<(b+a))
3.
            b=(b+2)+b
5.
            b=b+2
            b=b+3
                        A STEPHENNING TO
6.
7.
            return 1+funn(a,b+a)
        End if
9.
        return a+1
```

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.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit 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.

Ops: A. 014

B. 💿 9

C. 08

```
Q 12. What will be the output of the following pseudocode?
            Integer i, m
        1.
        2. Set m=1
        3. Integer a[5] = \{1, 2, 2, 5,
        4. for(each i from 1 to 4)
           End for
        7. m=a[0]+a[4]+a[1]
            Print m
Ops: A. 07
     B. ()0
     C. ()13
     D. (03
     Reset
Q 13. What will be the output of the following pseudo code?
           Integer j
        2. Integer arr= {0, 2, 3, 4}
        3. arr[1]=1+arr[2]
        4. if((arr[2]+arr[1])+(arr[1]+arr[3])>(arr[2]+arr[1]+arr[3]))
                anr[3]=(arr[2]+4)+arr[3]
        6. Else
                arr[1]=(U+U)+arr[2]
           End if
            if((arr[1]+447)>(arr[0]43))
```

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

```
    Integer p,q,r
    Set p=9, q=6, r=5
    for(each r from 3 to 4)
    p=(r^3)+r
    q=(11+7)+p
    p=(5+2)+p
    p=(p&3)+r
    End for
    r=(p+p)^q
    Print p+q
```

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 one bit 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.

Ops: A. 💿 35

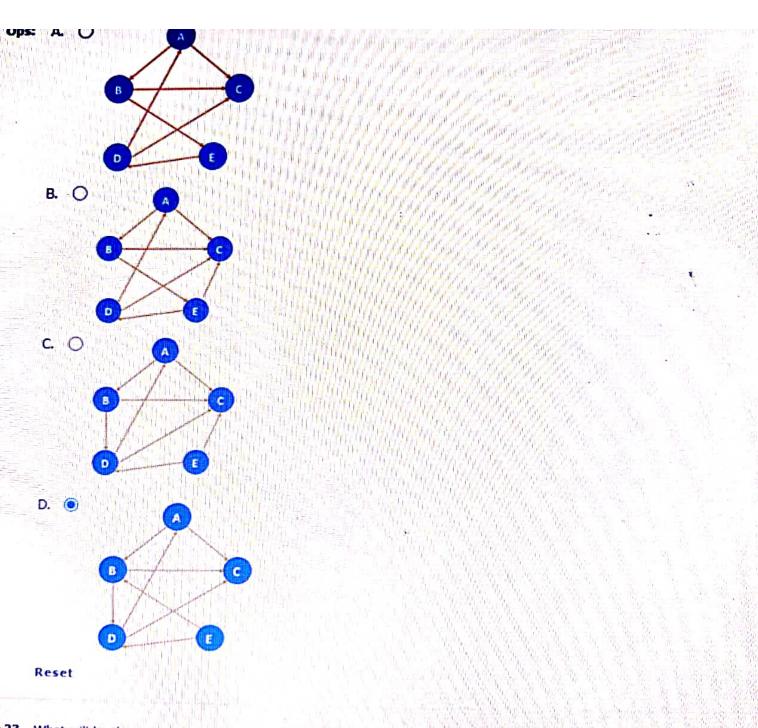
B. ()41

C. ()30

D. 044

Reset

24. What will be the output of the following pseudo code?



```
Q13. What will be the output of the following pseudo code?

1. Integer j
2. Integer arr= {0, 2, 3, 4}
3. arr[1]=1+arr[2]
4. if((arr[2]+arr[1])+(arr[1]+arr[3])>(arr[2]+arr[1]+arr[3]))
5. arr[3]=(arr[2]+4)+arr[3]
6. Else
7. arr[1]=(8+6)+arr[2]
8. End if
```

9. if((arr[1]+4^7)>(arr[0]^3)) 10. arr[3]=(arr[2]+4)+arr[8] 11. End if

12. arr[1]=(8+6)+arr[0]

13. Print arr[1]+arr[2]+arr[3]

Note- ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit 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.

Ops: A. 041

B. (35

C. 046

D. ()22

Reset

Q 09. If we draw a binary search tree by inserting the given numbers from left to right, then what would be the height of the BST?

48, 36, 12, 9, 11

Ops: A. 04

B. 06

C. O2

D. **O**3

Reset

Q 10. Find out the number of vertices in a simple graph, if there are 8 edges, 2 vertices of degree 3, and all others of degree 2.

Ops: A. 07

B. 06

C. 08

D. 09

Reset

Q 11. What will be the output of the following pseudocode?

Integer p,q,r

- 2. Set p=9, q=6, r=4
- 3. r=10^p
- 4. p=r+r
- 5. p=p+q
- 6. p=12&r
- 7. Print p+q+r

Q 11. What will be the output of the following pseudocode?

1. Integer p,q,r

2. Set p=9, q=6, r=4

3. $r=10^p$

4. p=r+r

5. p=p+q

6. p=12&r

7. Print p+q+r

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 one bit 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.

: A. 📵 9

B. 011

C. ()3

D. 023

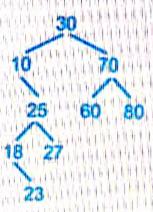
Reset

12. What will be the output of the following pseudocode?

- B. 043, 31, 7, 6, 4
- C. 043, 31, 7, 4, 6
- D. 043, 31, 4, 7, 6

Reset

Q 21.



Which of the following is the correct Preorder Traversal of the given tree?

Alle dus des des Auss Auss Auss. Alle dus des Auss Auss Auss.

Ops: A. ()30-10-70-25-60-80-18-27-23

- B. © 30-10-25-18-23-27-70-60-80
- C. 23-18-27-25-10-60-80-70-30
- D. 010-18-23-25-27-30-60-70-80

Reset

Q 22.

	A	В	c	D	E
A	0	1	1	0	O
A B C D E	0 0 0 1	0	1	1	0
C	0	0	0	0	0
D		0	1	0	۵
Ε	0	1	0	1	0

Which of the following is the correct graph represented by the given Adjacency Matrix?

Ops: A



Q 17. What will be the output of the following pseudo code? Integer p,q,r 2. Set p=1, q=5, r 3. r=(q+p)+p4. if((p+q)<(q+p)) 5. r=(5+7)+qEnd if 7. p=p+p 8. if((p+q)<(10-p)) q=q+r 10. End if 11. q=p+p Ops: B. ()17 C. O20 D. ()12 Reset Q 18. What will be the output of the following pseudo code? Integer ajb,c 2. Set a=1, b=5, c=8 3. if((b+8)<c) c=(c+b)+b 5. Else c=(c+b)+a

Q 16. What will be the output of the following pseudocode?

- String str1="stay", str2="okok"
- Print isPalin(str2+str1)+countConso(str2+str1)

Note: countConso(string) returns the number of consonants in the string. Ex- countConso("okay") returns 2. isPalin(string) returns 1 if the string is a palindrame, otherwise returns 0. Ex- isPalin("yyy") returns 1.

Ops: A. 07

B. **3**

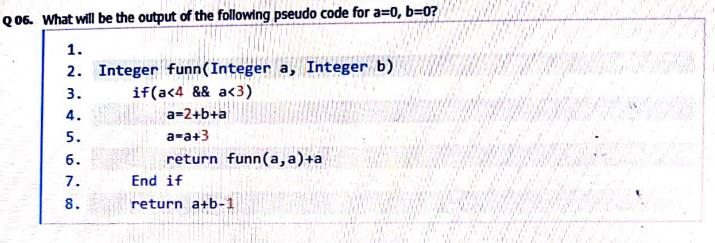
C. ()9

D. () 5

Reset

Q 17. What will be the output of the following pseudo code?

- 1. Integer p,q,r
- 2. Set p=1, q=5, r=8
- 3. r=(q+p)+p
- 4. if((p+q)<(q+p))
- 5. r=(5+7)+q
- 6. End if
- 7. p=p+p
- 8. if((p+q)<(10-p))
- 9. q=q+n
- 10. End if
- 11. q=p+p
- 12. Print p+q+r



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.

s: A. 024

B. 016

C 07

D 14

Reset

Q 07. Solve the given postfix expression.

32 + 5/4 +

Ops: A. 02

B. (5

C. ()3

D. ()8

Reset

```
Q 18. What will be the output of the following pseudo code?
            Integer a,b,c
        1.
        2. Set a=1, b=5, c
            if((b+8)<c)
        4. c=(c+b)+b
            Else
        6. c=(c+b)+a
        7. End if
           c=(6+7)+b
        9. if((b+c)<(a-b))
       10. b=(a+c)+a
       11. End if
           Print a+b+c
Ops: A. ()4
    B. ( 24
    C. ()32
    D. ()35
    Reset
Q 19. What will be the output of the following pseudocode for a=2, b=1?
           Integer funn(Integer a, Integer b)
       1.
       2.
               if(b&a>0)
       3.
                   return funn(b-1,a+2)
       4.
               End if
       5.
               return b+a
```

0 08.	If an integer takes 2 bytes of memory then how many bytes would be allocated to an array int a[4][4]?
The State of the	Marian Carlotte and Carlotte an
Ops:	A. O16
	B. © 32
	D. 08
	Reset
2 09.	If we draw a binary search tree by inserting the given numbers from left to right, then what would be the height of
	BST?
	48, 36, 12, 9, 11
ps:	A.
	в. 06
	C O2
	D. Q3
	Reset - Control of the Control of th
10	
	Find out the number of vertices in a simple graph, if there are 8 edges, 2 vertices of degree 3, and all others of degr
	A.
	A.
Q 10. Ops:	A.

```
What will be the output of the following pseudo code for a=1, b=6?

1.
2. Integer funn(Integer a, Integer b)
3. if((b-4)>(a&b) && (b&a)<(a+b))
4. a=1+b+b
5. a=(b+1)+a
6. return funn(a+1,b)
7. End if
8. return a+b</pre>
```

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 operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

ps: A. 035

B. 💿 27

C ()29

D. 022

Reset

Q 06. What will be the output of the following pseudo code for a=0, b=0?

1.

Integer funn(Integer a, Integer b)

if(a<4 && a<3)

4. a=2+b+a

Ama .

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

- 1. Integer a,b,c
- Set a=7, b=2, c=9
- 3. b=9^b
- 4. for(each c from 2 to 3)
- 5. b=(a+a)&a
- 6. End for
- 7. b=1^a
- 8. Print a+b

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 one bit 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.

ps: A. 020

B. 13

C. ()9

D. () 25

Reset

215. What will be the output of the following pseudo code?

Reset

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

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

4.
$$if((p&q)<(7-p))$$

5.
$$p=(5+3)+q$$

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 one bit 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.

Once

Reset

Q 16. What will be the output of the following pseudocode?