

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

1. Integer p, q, r
2. Set p = 4, q = 6, r = 6
3. for(each r from 4 to 6)
4. q=12+p
5. if(8>q)
6. p=8+q
7. p=(r+q)+r
8. Else
9. q=1&p
10. Continue
11. End if
12. End for
13. Print p+q

[Note- Continue: When a continue statement is encountered inside a loop, control jumps to the beginning of the loop for next iteration, skipping the execution of statements inside the body of the loop for the current iteration.

&: 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.]

- ☐ 14
- ☐ 3
- ☒ 4
- ☐ 6

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

1. Integer p, q, r
2. Set p = 4, q = 5, r = 10
3. for(each r from 2 to 6)
4. q = p+q
5. q = (q+9)+q
6. End for
7. q=(p+6)+p
8. q=12+r
9. for(each r from 2 to 3)
10. p=(r+p)+q
11. p=r+p
12. End for

- ☒ 71
- ☐ 65
- ☐ 82
- ☐ 73

3.

What will be the output of the following pseudocode?

1. Integer a, b, c
2. Set a = 1, b = 8, c = 7
3. for(each c from 3 to 7)
4. b=(12+8)+a
5. End for
6. for(each c from 2 to 5)
7. a=(b+b)+b
8. End for
9. Print a+b

- ☐ 79
- ☐ 88
- ☒ 84
- ☐ 92

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

1. Integer p, q, r
2. Set p = 8, q = 2, r = 9
3. for(each r from 2 to 3)
4. p=(r+3)+p
5. if((q+r)<(p-q))
6. p=(q+r)+p
7. End if
8. End for
9. Print p+q

- ☒ 30
- ☐ 25
- ☐ 40
- ☐ 33

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

1. Integer p, q, r
2. Set p = 7, q = 3, r = 6
3. for(each r from 3 to 4)
4. p = (q +12) + r
5. End for
6. for(each r from 5 to 6)
7. p = (q + q) + r
8. End for
9. Print p + q

- ☐ 10
- ☒ 15
- ☐ 27

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

1. Integer a, b, c
2. Set a = 9, b = 4, c = 7
3. for(each c from 3 to 4)
4. b=(3+8)+c
5. if((b+4)<(4-b))
6. Continue
7. Else
8. Jump out of the loop
9. End if
10. a=8+c
11. End for
12. Print a+b

☒ 23

☐ 31

☐ 20

☐ 26

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

1. Integer p, q, r
2. Set p = 0, q = 4, r = 9
3. for(each r from 3 to 5)
4. p=11+r
5. if((9-q-p)<(p-r))
6. Continue
7. Else
8. Jump out of the loop
9. End if
10. p=(p+q)+p
11. End for
12. Print p+q

[Note- Continue: When a continue statement is encountered inside a loop, control jumps to the beginning of the loop for next iteration, skipping the execution of statements inside the body of the loop for the current iteration.]

☐ 22

☐ 26

☒ 20

☐ 10

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

1. Integer p, q, r
2. Set p = 6, q = 6, r = 7

```

3. for(each r from 5 to 9)
4.     p=8+q
5.     if((r-q+p)<(p-r))
6.         Continue
7.     Else
8.         q=q+r
9.         q=r+q
10.    End if
11. End for
12. Print p+q

```

[Note- Continue: When a continue statement is encountered inside a loop, control jumps to the beginning of the loop for next iteration, skipping the execution of statements inside the body of the loop for the current iteration.]

- ☒ 72
- ☐ 83
- ☐ 71
- ☐ 79

9. What will be the output of the following pseudo code for a=8, b=4, c=5 ?

Integer funn(Integer a, Integer b, integer c)

For (each c from 5 to 8)

a=(a^b)+b

b=c^a

End for

c=(1+12)+c

b=(a+6)+c

For (each c from 3 to 4)

b=(2+7) +a

b=(b^3)+a

end for

return a+b

- ☐ 135
- ☒ 142
- ☐ 144
- ☐ 155

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

Integer a,b,c

Set a=2, b=4, c=9

For (each c from 4 to 7)

a=(10+12)+a

end for

for(each c from 3 to 5)

b=(a+1)+b

a=(b+10)&c

end for
print a+b

- ☐ 98
- ☐ 88
- ☒ 102
- ☐ 110

11. The following C program is producing incorrect result due to logical error. Find out in which line the error is.

```
1 #include <stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d", &n);
6     int factorial = 0;
7     for (int i = n; i >= 1; i--)
8     {
9         factorial *= i;
10    }
11    printf("%d", factorial);
12 }
```

- ☐ Line 12
- ☐ Line 5
- ☒ Line 6
- ☐ Line 9

12. Following C program is failing to get executed due to syntactical errors, find out in which line(s) they are present.

```
1 #include <stdio.h>
2 int main()
3 {
4     int cost_price, sell_price
5     cost_price = 100;
6     sell_price = 200;
7     if (cost_price > sell_price)
8     {
9         printf("Loss");
10    }
11    else
12    {
13        printf("Profit");
14    }
15 }
```

- ☐ Line 4
- ☐ Line 4, Line 9 and Line 13
- ☐ Line 1 and Line 4
- ☒ Line 4 and Line 13