

1.

What will be the output of the following pseudo code?

Integer p,q,r

Set p=4 , q = 7, r = 4

if((q^r)<(p+q))

 q=(q+q)&r

 p=(r+q)+q

else

 r=1+r

 if((r^6)<6)

 r=(3+8)+p

 q=(r+7)^q

 end if

 r=(q+r)+q

end if

print p+q+r

☐ 14

☐ 31

☐ 25

☒ 20

2. What will be the output of the following psusdo code ?

Integer p,q,r

Set p=6 , q = 6 , r=7

if((q+p)>(p-q))

 if((r^q^6)<(9+p+r))

 if((q+6)>(r-q))

 P=2&r

 End if

 P=(1+12)+r

 End if

 q =(8+1)+q

end if

p=q+r

q=(10+4)+r

print p+q+r

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3.

What will be the output of the following pseudocode?

integer a, b, c

Set a=3, b=5, c=6

if((c&a)<a || (b^c)<c)

 c=(a+b)&b

End if

Print a+b+c

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☐ 5

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

Integer a, b, c

Set a=3, b=5, c=6

if((c&a)<a || (b^c)<c)

 c=(a+b)&b

End if

Print a+b+c

☒ 14

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5. What will be the output of the following pseudocode for input a=3 and b=4?

Integer fun (Integer a, Integer b)

Integer c, n

Set n = 5

If (b < 1)

 return n

else

 return fun (a+b+2, b-2)

End if

End fun()

☐ 5

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☒ 9

☐ 7

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

Integer pp, qq, rr

Set pp = 7, qq = 9, rr = 13

pp = (qq + 11) + qq

qq = rr

if((qq - pp) < (pp - qq) OR pp > rr)

rr=rr

End if

Print pp + qq + rr

☒ 55

☐ 54

☐ 61

☐ 57

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

Integer a, b, c

Set a = 5, b = 10, c = 10

c = a

a = (a ^ a) + b

b = (b & 3) + c

Print a + b + c

☐ 17

☒ 22

☐ 26

☐ 33

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

Integer a, b, c

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

if((5^a^b)<(3+b+c))

c=(a+c)+b

c=a

End if

Print a+b+c

☒ 8

☐ 11

☐ 17

☐ 5

9. Integer a, b, c

Set a=1, b=5, c=7

If((c+a+b)>(b+c))

If((c+5+b)>(3+c))

a=(4+8)+b

Else:

b=8+a

End if

Else

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a=5+b
if((a-b+c)>(c+a))
    a=(a+7)+b
End if
```

End if

Print a+b+c

- ☐ 36
- ☐ 41
- ☐ 16
- ☒ 29

10. What will happen when following pseudocode is executed?

Set Integer Emp_no=101

Set Integer salary = 0

while(Emp_no=501)

 salary=salary+100

 display salary

end-while

- ☐ Code executes successfully and nothing is displayed.
- ☐ Compile time error.
- ☒ Code executes successfully and value of salary is displayed infinite number of times.
- ☐ Code executes successfully and value of salary is displayed once.

11. What will be the output of following program when pos=2?

Set Integer array=[3,6,8,5,0]

for c = pos - 1 to 4 step 1

 do array[c] = array[c+1]

print array

- ☐ [3,6,8,5]
- ☒ [3,8,5,0]
- ☐ [6,8,5,0]
- ☐ [3,6,5,0]

12. What will happen when following program is executed?

Set Integer a=2

Set Integer b=3

while(0) a=a*b

display a

end-while

- ☐ Infinite loop
- ☐ 6 will be displayed
- ☒ 2 will be displayed
- ☐ Nothing will be displayed

13. How will the output array be after following operations?

Set Integer array = {1, 3, 5, 7, 9}

Set Integer item = 10

Set Integer k = 3

Set Integer n = 5

Set Integer j = n

Set Integer n = n + 1

while(j >= k)

array[j + 1] = array[j]

j = j - 1

end-while

array[k] = item

- ☐ {1, 3, 5}
- ☒ {1, 3, 5, 7, 7}
- ☐ {1, 3, 7, 8}
- ☐ {1, 3, 5, 10, 7, 8}

14. What will happen when following pseudocode is executed?

Set Integer array a=[2,9,8,6,4]

Set Integer array b

Set Integer len=ArrayLength(a)

for c = len-1 to 0 step - 1 and d = 0 to len - 1 step + 1 do

b[d] = a[c]

end-for

display b

- ☐ [2, 4, 6, 8, 9]
- ☐ [2, 9, 8, 6, 4]
- ☒ [4, 6, 8, 9, 2]
- ☐ [4, 2, 9, 8, 6]

15. How many times “hello” will be displayed?

for var=0 to 4 step 1 do

if var==2*var then do

display “hello”

end-if

end-for

display i

- ☒ 1
- ☐ 3
- ☐ 4
- ☐ 2

16.

What will be the output of the following pseudocode?

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

[Note: ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bits 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.]

- ☐ 63
- ☐ 56
- ☒ 59
- ☐ 65

17. What will be the output of the following pseudocode for a = 6, b = 5, c = 5?

1. Integer funn(Integer a, Integer b, Integer c)
2. c=c+b
3. b=(c+b)+a
4. b=(a+a)+a
5. if((c&8)<a || c>a)
6. c=1+c
7. End if
8. return a+b+c
9. End function funn()

[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.]

- ☐ 41
- ☒ 35
- ☐ 48
- ☐ 25

18. What will be the output of the following pseudocode for a = 8, b = 3, c = 10?

1. Integer funn(Integer a, Integer b, Integer c)
2. b = (a+8)+a
3. b = c+a

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4.      a = (6+5)+c
5.      if((c+7)>(b-c))
6.          b=(a+b)+c
7.      End if
8.      return a+b+c
9. End function funn()
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☒ 80

☐ 90

☐ 83

☐ 76