

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

1. Integer n, beg, end
2. Set beg = 5, end = 7, sum = 0
3. if(beg > end)
4.       Print sum + 1
5. else
6.       for(n = end; n >= beg; n=n-1)
7.             sum = sum + n
8.             n = n - 1
9.       End for loop
10. Print n

☒ 3

☐ 7

☐ 6

☐ 9

2. What will be the output of the following pseudocode for n = 5?

1. Integer i, j, n
2. Read n
3. for(each i from 1 to n)
4.       for(each j from 1 to i)
5.             Print i
6.       End for
7.       Go to New line
8. End for

☒ 122333444455555

☐ 123456789101112131415

☐ 112123123412345

☐ None of the mentioned options

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

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

13. End for

14. Print a + b

[Note: If(x) gets executed if the value inside if(), i.e., x is not zero.]

☐ 9

☐ 7

☐ 2

☒ 6

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

1. Integer a, b, c

2. Set a = 1, b = 3

3. for(each c from 6 to 8)

4.       if(0 || 1)

5.               a = a + b

6.       Else

7.               a = a + c

8.               if(1)

9.                       a = a - 2

10.           End if

11.       End if

12. End for

13. Print b + a

[Note- ||: Logical OR - The logical OR operator (||) returns the Boolean value TRUE (or 1) if either or both operands are true and return FALSE (or 0) otherwise.

If(x) gets executed if the value inside if(), i.e., x is not zero.]

☐ 1

☒ 13

☐ 4

☐ 7

5. 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]

6. 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

7. 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}

8. 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]

9. 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

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

Integer a, b, c

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

$c = a$

$a = (a \wedge a) + b$

$b = (b \& 3) + c$

Print  $a + b + c$

- ☐ 25
- ☒ 22
- ☐ 35
- ☐ 20