

# ACCENTURE

## PSEUDO CODE



**What will be the output of the following pseudocode for  $a = 9$ ,  $b = 7$ ?**

**Integer funn(Integer a, Integer b)**

**Integer c**

**Set c = 2**

**b = b mod c**

**a = a mod c**

**return a + b**

**End function funn()**

- **A) 17**
  - **B) 5**
  - **C) 2**
  - **D) -5**
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**Answer: C) 2**

**Explanation:**

- **c is set to 2.**
  - **$b = b \bmod c \rightarrow b = 7 \bmod 2 \rightarrow b = 1$**
  - **$a = a \bmod c \rightarrow a = 9 \bmod 2 \rightarrow a = 1$**
  - **The function returns  $a + b \rightarrow 1 + 1 = 2$ .**
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**What will be the output of the following pseudocode?**

**Integer a, b, c**

**Set a = 8, b = 6, c = 4**

**If (a > b)**

**a = b**

**Else \_\_\_\_\_**

**b = a**

**End If**

**If (c > b)**

**c = b**

**Else \_\_\_\_\_**

**b = c**

**End If**

**Print a + b + c**

- **A) 13**
- **B) 17**
- **C) 14**
- **D) 23**

**Answer: C) 14**

**Explanation:**

- **Initially,  $a = 8, b = 6, c = 4$ .**
  - **First if condition:  $a > b$  is true, so  $a = b \rightarrow a = 6$ .**
  - **Second if condition:  $c > b$  is false, so  $b = c \rightarrow b = 4$ .**
  - **Now,  $a = 6, b = 4, c = 4$ .**
  - **The output is  $a + b + c \rightarrow 6 + 4 + 4 = 14$ .**
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**What will be the output of the following pseudocode for input  $a = 30$ ,  $b = 60$ ,  $c = 90$ ?**

**Integer  $a$ ,  $b$ ,  $c$ ,  $sum$**

**Read  $a$ ,  $b$ ,  $c$**

**Set  $sum = a + b + c$**

**if (( $sum$  EQUALS 180) and ( $a$  NOT EQUALS 0) and ( $b$  NOT EQUALS 0) and ( $c$  NOT EQUALS 0))**

**Print "Success"**

**Otherwise**

**Print "Fail"**

**End if**

**A) Success**

**B) None of the mentioned options**

**C) Error in the logic of the pseudocode**

**D) Fail**

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**Answer: A) Success**

**Explanation:**

- **$\text{sum} = a + b + c \rightarrow \text{sum} = 30 + 60 + 90 = 180.$**
- **Since sum equals 180 and all variables a, b, c are non-zero, the condition is true.**
- **Therefore, the output is "Success".**

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**What will be the output of the following pseudocode for  $a = 1, b = 2$ ?**

```
Integer funn(Integer a, Integer b)  
  if ( $a < 3$  and  $b < 4$ )  
    return funn( $a + 1, b + 1$ )  
  Else return  $a + b$   
  End if  
End function funn()
```

- **A) 8**
- **B) 19**
- **C) -7**
- **D) 7**

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**Answer: D) 7**

**Explanation:**

- **Call funn(1, 2).**
- **a < 3 and b < 4 is true.**
- **Call funn(2, 3).**
- **a < 3 and b < 4 is true.**
- **Call funn(3, 4).**
- **a < 3 and b < 4 is false.**
- **Return a + b = 3 + 4 = 7.**

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**What will be the output of the following pseudocode for  $a = 2$ ,  $b = 6$ ?**

**Integer funn(Integer a, Integer b)**

**if ( $a > 0$ )**

**if ( $b > 0$ )**

**return  $a + b + \text{funn}(a + 1, 0) + \text{funn}(a + 2, 0) + \text{funn}(a + 3, 0)$**

**End if**

**End if**

**return  $a + b$**

**End function funn()**

• **A) 21**

• **B) 17**

• **C) 37**

• **D) 20**

**Answer: D) 20**

**Explanation:**

- **Call funn(2, 6).**
- **a > 0 and b > 0 are true.**
- **return 2 + 6 + funn(3, 0) + funn(4, 0) + funn(5, 0).**
- **funn(3, 0), funn(4, 0), funn(5, 0) return 3, 4, 5 respectively.**
- **2 + 6 + 3 + 4 + 5 = 20.**

**What will be the output of the following pseudocode for  $a = 4$ ,  $b = 6$ ?**

**Integer funn(Integer a, Integer b)**

**if ( $a > 2$ )**

**if ( $b > 2$ )**

**return  $a + b + \text{funn}(a + 1, b - 5)$**

**End if**

**End if**

**return  $a - b$**

**End function funn()**

- **A) 17**
- **B) 14**
- **C) 22**
- **D) 12**

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**What will be the output of the following pseudocode?**

**Integer p, q, r**

**Set p = 3, q = 1, r = 2**

**If (p + (2 & 2 & 2) and q + (3 & 3 & 3) and r + (2 ^ 2 ^ 2))**

**p = p - 2q = p**

**Else**

**p = r**\_\_\_\_\_

**q = q ^ 2**

**End If**

**Print p + q + r**

- **A) 8**
- **B) 4**
- **C) 16**
- **D) -8**

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**Answer: B) 4**

**Explanation:**

- **$(2 \& 2 \& 2)$  evaluates to 2.**
- **$(3 \& 3 \& 3)$  evaluates to 3.**
- **$(2 \wedge 2 \wedge 2)$  evaluates to 2.**
- **$(p + 2)$  is 5,  $(q + 3)$  is 4,  $(r + 2)$  is 4, all conditions are true.**
- **$p = p - 2 \rightarrow p = 3 - 2 = 1$ .**
- **$q = p \rightarrow q = 1$ .**
- **Now,  $p = 1, q = 1, r = 2$ .**
- **Output is  $p + q + r = 1 + 1 + 2 = 4$ .**

**What will be the output of the following pseudocode?**

**Integer p, q, r**

**Set p = 0, q = 4, r = 3**

**If (p or r)**

**If (p and r)**

**p = p & r**

**End If**

**p = p ^ r**

**End If**

**Print p + q + r**

- **A) 10**
- **B) 20**
- **C) 12**
- **D) 7**



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**Answer: A) 10**

**Explanation:**

- **$(p \text{ or } r)$  is true because  $r$  is 3.**
- **$(\overline{p \text{ and } r})$  is false because  $p$  is 0.**
- **$p = p \wedge r \rightarrow p = 0 \wedge 3 = 3.$**
- **Now,  $p = 3, q = 4, r = 3.$**
- **Output is  $p + q + r = 3 + 4 + 3 = 10.$**



**What will be the output of the following pseudocode?**

**Integer x**

**Set x = 5**

**x = x + 5**

**Print x**

- **A) 5**
- **B) 10**
- **C) 15**
- **D) 20**

**Answer: B) 10**

**Explanation: The value of x is initially set to 5, then increased by 5, resulting in 10.**

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**What does the following  
pseudocode do?**

**Integer x**

**Set x = 10**

**Print x\_\_\_\_\_**

- **A) Sets x to 0**
- **B) Prints the value 10**
- **C) Increases x by 10**
- **D) Prints 0**

**Answer: B) Prints the value 10**

**Explanation: The pseudocode sets the variable x to 10 and then prints it.**

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**Q: What will be the output of the following pseudocode?**

**Integer i**  
**for(i = 0 to 4)**  
**Print "Hello"**  
**end for**



- **A) "Hello" is printed 4 times**
- **B) "Hello" is printed 5 times**
- **C) "Hello" is printed 6 times**
- **D) "Hello" is printed 1 time**

**Answer: B) "Hello" is printed 5 times**

**Explanation: The loop runs from 0 to 4, executing 5 iterations.**

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**What is the value of sum after executing the following pseudocode?**

**Integer i, sum**

**Set sum = 0**

**for(i = 1 to 5)**

**sum = sum + i**

**end for**



- **A) 10** \_\_\_\_\_
- **B) 15**
- **C) 20**
- **D) 25**

**Answer: B) 15**

**Explanation: The loop calculates the sum of integers from 1 to 5.**

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**What will be the output of the following pseudocode?**

**Integer arr[3] = {2, 4, 6}**  
**Print arr[1]**

- **A) 2**
- **B) 4**
- **C) 6**
- **D) 1**

**Answer: B) 4**

**Explanation: Arrays are zero-indexed, so arr[1] accesses the second element.**

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**What is the value of `arr[2]` after the following operations?**

**Integer `arr[3] = {1, 2, 3}`  
`arr[2] = arr[0] + arr[1]`**

- **A) 1**
- **B) 2**
- **C) 3**
- **D) 4**

**Answer: C) 3**

**Explanation: arr[0] is 1 and arr[1] is 2, so arr[2] becomes 3.**

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**What will be the output of the following pseudocode when fun(2) is called?**

```
Integer fun(Integer n)  
if (n <= 0) return 1  
return n * fun(n - 1)
```

- **A) 1**\_\_\_\_\_
- **B) 2**
- **C) 3**
- **D) 4**

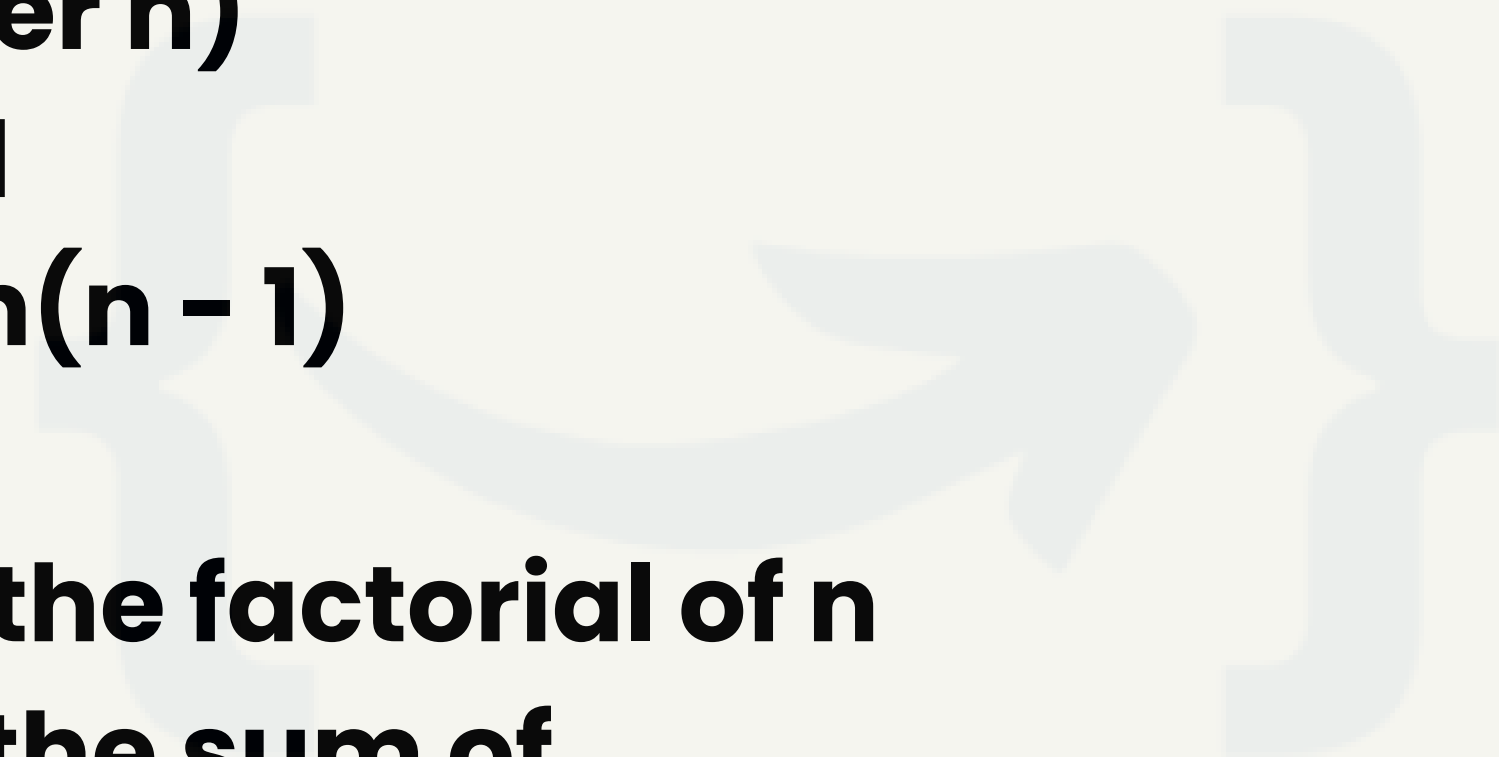
- **Answer: B) 2**

**Explanation: The function calculates the factorial of n. For n = 2, it returns  $2 * \text{fun}(1)$  which results in 2.**

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**What does the following  
pseudocode do?**

```
Integer fun(Integer n)  
if (n == 0) return 1  
else return n + fun(n - 1)
```



- **A) Computes the factorial of n**
- **B) Computes the sum of  
integers from n to 1**
- **C) Computes the product of  
integers from n to 1**
- **D) Returns 1 for any value of n**

- **Answer: B) Computes the sum of integers from n to 1**

**Explanation: This recursive function adds the current n to the result of fun(n-1) until n is 0.**



**What is the result of the following pseudocode when compute(2) is called?**

**Integer compute(Integer x)  
return  $x * x$**

- A) 2
- B) 4
- C) 6
- D) 8

- **Answer: B) 4**

**Explanation: The function compute squares the input value.**

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**What does the following  
pseudocode return when add(3, 4)  
is called?**

**Integer add(Integer a, Integer b)  
return a + b**

- **A) 3**
- **B) 4**
- **C) 7**
- **D) 10**

- **Answer: C) 7**

**Explanation: The function adds the two input values.**

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**What will be the value of the following pseudocode?**

**Integer a = 5, b = 3**  
**Print a & b**

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- **A) 0**
- **B) 1**
- **C) 2**
- **D) 3**

- **Answer: B) 1**

**Explanation: The bitwise AND of 5 (0101) and 3 (0011) is 1 (0001).**

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**What will be the output of the following pseudocode?**

**Integer x = 8**

**x = x << 1**

**Print x**\_\_\_\_\_

- **A) 8**
- **B) 10**\_\_\_\_\_
- **C) 16**
- **D) 18**



- **Answer: C) 16**

**Explanation:** The bitwise left shift operation  $\ll$  moves all bits in x one place to the left, doubling the value.

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**What will be the value of y after the following pseudocode?**

**Integer x = 5, y**  
**y = ++x**

- **A) 5**
- **B) 6**
- **C) 7**
- **D) 8**

- **Answer: B) 6**

**Explanation: The pre-increment operator ++x increases x by 1 before assigning it to y.**

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**What is the value of z after the following pseudocode?**

**Integer z = 10**

**z--**

**Print z**\_\_\_\_\_

- **A) 9**\_\_\_\_\_
- **B) 10**
- **C) 11**
- **D) 12**



- **Answer: A) 9**

**Explanation: The post-decrement operator z-- decreases z by 1 after its current value is used.**

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**What will be the output of the following pseudocode?**

**Integer a = 10, b = 20**

**if (a > b)**

**Print "a is greater"**

**else**

**Print "b is greater"**

- **A) a is greater**
- **B) b is greater**
- **C) a and b are equal**
- **D) None of the above**

- **Answer: B) b is greater**

**Explanation: Since a is not greater than b, the else block is executed.**

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**What does the following pseudocode do?**

```
Integer n = 15  
if (n % 2 == 0)  
  Print "Even"  
else _____  
  Print "Odd"
```

- **A) Prints "15"**
- **B) Prints "Even"**
- **C) Prints "Odd"**
- **D) Does nothing**



- **Answer: C) Prints "Odd"**

**Explanation: The code checks if n is even or odd and prints the appropriate message. Since 15 is odd, "Odd" is printed.**



# What does the following pseudocode do?

**Stack s**

**s.push(10)**

**s.push(20)**

**s.pop()**

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- **A) Pushes 10 and 20 onto the stack, then pops 10**
- **B) Pushes 10 and 20 onto the stack, then pops 20**
- **C) Pops 20, then pushes 10 and 20**
- **D) Pushes 10, pops 20**

- **Answer: B) Pushes 10 and 20 onto the stack, then pops 20**

**Explanation: The last element pushed onto the stack is popped first (LIFO).**

**What will be the value of q.front()  
after the following pseudocode?**

**Queue qq.enqueue(5)  
q.enqueue(10)  
q.enqueue(15)  
q.dequeue()**

- **A) 5**
- **B) 10**
- **C) 15**
- **D) 20**

- **Answer: B) 10**

**Explanation: The first element enqueued (5) is removed by dequeue, making 10 the front of the queue.**

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