

Pseudo Codes Accenture Exam

13 August 2023 15:17

3

Ques 1. Integer p, q
set p=2, q=3

Function (int p, int q)
if(q equals 1)
return 0

else
return p+ function(p,q-1)
End function()

= 4

① p=2, q=3

Fun(2,3)

if(3==1)

= 4

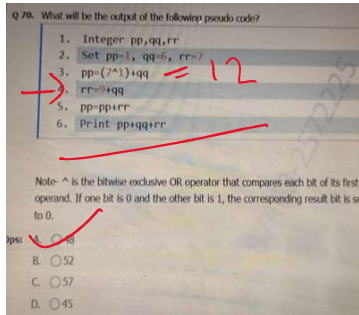
else
return

2+2 2
p+Fun(2,2)

2 Fun(2,2)
if(2==1)

return p+Fun(2,1)
0 2

Ques2.



p=1 q=6 r=7

p=(7^1)+6

= 6+6=12

r=9+6=15

A	B	A^B
1	1	0
0	1	1
1	0	1
0	0	0

p=12+15

= 27

p+q+r
27+6+15=

27
21
48

Ques 3. n=1
int func (int n)
if(n>7)
print (n)
else
return (increment n by 1)
end func ()

if(1>7)

return (n+1) = 1+1 = 2

= 2

(n+1) Fun(n+1)

1. HOME WORK

Q 76. What will be the output of the following pseudo code?

```

1. Integer a,b,c
2. Set a=3, b=2, c=10
3. b=(b&11)+a
4. if((a+c)>(c-a))
5.     b=(9+2)+c
6. Else
7.     c=(2+8)^c
8. End if
9. if(7<a)
10.     b=(c+11)+c
11. End if
12. a=(2^7)&a
13. Print a+b+c
    
```

Ques 5. set integer n=4

func(int n)

```

{
  if n<2
    return n;

```

```

  else
    return func(n-1) + func(n-2);
}
    
```

if 4 < 2

if 3 < 2

if 2 < 2
if 1 < 2

if 0 < 2
return 0

ret func(3) + func(2)

= 2 + 1 = 3

ret func(2) + func(1)

= 1 + 1 = 2

if 1 < 2
if 0 < 2
return 0

Ques 6.

What will be the output of the following pseudocode?

```

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

Note: &: bitwise AND - The bitwise AND operator (&) compares each bit of the operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the result bit is 0.
^: bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of the second operand. If one bit is 1 and the other bit is 0, the corresponding result bit is set to 1. Otherwise, the result bit is 0.

ret func(1) + func(0)

func(2) = 1

1 + 0 = 1

p+q+r

= 20

☐ 20
☐ 2
☐ 25
☐ 31

$$p + q + r$$

$$= 6 + 2 + 12 = 20 \text{ AM}$$

p, q, r

$$p = 6$$

$$q = 2$$

$$r = 6$$

$$r = (6 \oplus 6) + 6 = 6 + 6 = 12$$

$$\text{if } (6 - 2 - 12) > (12 - 6)$$

$$6 - 14 > 6 \quad - \Rightarrow 6$$