## Pregunta 6

•••

Transferir o no transferir, esa es la cuestión

## Introduccion

Por definición: 
$$A = 2 \times ((X + Y) \mod 5) + 3$$

$$B = 2 \times ((Y + Z) \mod 5) + 3$$

$$C = 2 \times ((X + Z) \mod 5) + 3$$

En mi caso, 
$$X = 2$$
,  $Y = 1$  y  $Z = 6$ .

Por lo tanto 
$$A = 9$$

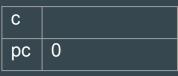
$$B = 7$$

$$C = 9$$

```
coroutine t():
coroutine w():
                                         coroutine f():
                    0 \quad \text{int } b = 1
                                                                  Imprime
0 int a = 0
                                          0 int c = 1
    loop:
                        loop:
                                            loop:
   1 	 c = c + 9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
   transfer t() 4 transfer w() 4 transfer w()
                                             else:
   else:
                        else:
      transfer f() 5
                          transfer f()
                                                transfer t()
```

а	0
рс	0

b	
рс	0



а	9
рс	1

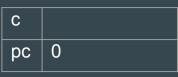
b	
рс	0

С	
рс	0

	routine w():		outine t():		oroutine f():	I
0	int a = 0 loop:	0	int b = 1 loop:	0	int c = 1 loop:	Imprime
1	a = 2 * a + 9	1	b = (b + 7) * 7	1	c = c + 9	9
2	print(a)	2	print(b)	2	print(c)	,
3	if a mod 3 == 0:	3	if b mod 3 == 1:	3	if c mod 3 == 2:	
4	transfer t()	4	transfer w()	4	transfer w()	
	else:		else:		else:	
5	transfer f()	5	transfer f()	5	transfer t()	

а	9
рс	2

b	
рс	0



CO	routine w():	cor	outine t():	cc	oroutine f():	
0	int $a = 0$	0	int $b = 1$	0	int $c = 1$	Imprime
	loop:		loop:		loop:	
1	a = 2 * a + 9	1	b = (b + 7) * 7	1	c = c + 9	9
2	print(a)	2	print(b)	2	print(c)	
3	if a mod 3 == 0:	3	if b mod 3 == 1:	3	if c mod $3 == 2$ :	
4	transfer t()	4	transfer w()	4	transfer w()	
	else:		else:		else:	
5	transfer f()	5	transfer f()	5	transfer t()	

а	9
рс	3

а	9	b		С	
рс	3	рс	0	рс	0

С	
рс	0

	outine w(): int a = 0 loop:		outine t(): int b = 1 loop:		routine f(): int c = 1 loop:	Imprime
1 2 3 4	a = 2 * a + 9  print(a)  if a mod 3 == 0:  transfer t()  else:	1 2 3 4	b = (b + 7) * 7 print(b) if b mod 3 == 1: transfer w() else:	1 2 3 4	c = c + 9 print(c) if c mod 3 == 2: transfer w() else:	9
5	transfer f()	5	transfer f()	5	transfer t()	

а	9
рс	4

а	9	b	b		С	
рс	4	þ	рс	0	рс	0

С	
рс	0

coroutine w():	coroutine t():	coroutine f():	
0 int $a = 0$	0 int $b = 1$	0  int  c = 1	Imprime
loop:	loop:	loop:	
1 $a = 2 * a + 9$	1 $b = (b + 7) * 7$	1 c = c + 9	9
2 print(a)	2 print(b)	2 print(c)	
$\frac{1}{100}$ if a mod $3 == 0$ :	$\frac{1}{3}$ if b mod $3 == 1$ :	3  if c mod  3 == 2:	
4 transfer t()	4 transfer w()	4 transfer w()	
else:	else:	else:	
5 transfer f()	5 transfer f()	5 transfer t()	

а	9
рс	4

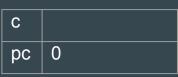
١	9	b	1	С	
С	4	рс	0	рс	0

С	
рс	0

co 0	routine w(): int a = 0 loop:		outine t(): int b = 1 loop:		routine f(): int c = 1 loop:	Imprime
1	a = 2 * a + 9		b = (b + 7) * 7	1	c = c + 9	9
2	print(a)	2	print(b)	2	print(c)	
3	if a mod 3 == 0:	3	if b mod $3 == 1$ :	3	if c mod $3 == 2$ :	
4	transfer t()	4	transfer w()	4	transfer w()	
	else:		else:		else:	
5	transfer f()	5	transfer f()	5	transfer t()	

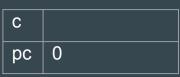
а	9
рс	4

b	56
рс	1



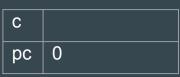
а	9
рс	4

b	56
рс	2



а	9
рс	4

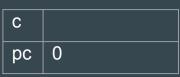
b	56
рс	3



```
coroutine t():
coroutine w():
                                        coroutine f():
0 int a = 0
                   0 int b = 1
                                                               Imprime
                                        0 int c = 1
    loop:
                       loop:
                                          loop:
  1 	 c = c + 9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                               56
   transfer t() 4 transfer w() 4 transfer w()
                                           else:
   else:
                      else:
      transfer f() 5
                         transfer f()
                                              transfer t()
```

а	9
рс	4

b	56
рс	5



```
coroutine w():
                      coroutine t():
                                               coroutine f():
                                                                           Imprime
0 int a = 0
                       0 int b = 1
                                               0 int c = 1
    loop:
                            loop:
                                                  loop:
   a = 2 * a + 9  b = (b + 7) * 7
                                          1 \qquad c = c + 9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                           56
    transfer t() 4 transfer w()
                                               4 transfer w()
                                                   else:
    else:
                           else:
                              transfer f()
       transfer f()
                                                       transfer t()
```

а	9
рс	4

b	56
рс	5

	4
С	1
рс	l n
PC	•

а	9
рс	4

b	56
рс	5

С	10
рс	1

а	9
рс	4

b	56
рс	5

С	10
рс	2

b	56
рс	5

С	10
рс	3

а	9
рс	4

b	56
рс	5

С	10
рс	5

а	9
рс	4

b	441
рс	1

С	10
рс	5

а	9
рс	4

b	441
рс	2

С	10
рс	5

а	9
рс	4

b	441
рс	3

С	10
рс	5

```
coroutine w():
                    coroutine t():
                                            coroutine f():
                     0 int b = 1
                                                                      Imprime
0 int a = 0
                                            0 int c = 1
   loop:
                     loop:
                                               loop:
1 a = 2 * a + 9 1 b = (b + 7) * 7
                                       1 \qquad c = c + 9
                                                                      9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                      56
                                                                      10
   transfer t() 4 transfer w() 4 transfer w()
                                                                      441
                                                else:
    else:
                         else:
       transfer f() 5
                            transfer f()
                                                   transfer t()
```

а	9
рс	4

b	441
рс	5

С	10
рс	5

а	9
рс	4

b	441
рс	5

С	19
рс	1

а	9
рс	4

b	441
рс	5

С	19
рс	2

а	9
рс	4

b	441
рс	5

С	19
рс	3

```
coroutine w():
                      coroutine t():
                                                coroutine f():
                       0 int b = 1
                                                                            Imprime
0 int a = 0
                                                0 int c = 1
   loop:
                       loop:
                                                   loop:
1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7
                                          1 \qquad c = c + 9
                                                                            9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                            56
                                                                            10
    transfer t() 4 transfer w() 4 transfer w()
                                                                            441
                                                    else:
    else:
                           else:
                                                                            19
                              transfer f()
       transfer f()
                                                       transfer t()
```

а	9
рс	4

b	441
рс	5

С	19
рс	5

а	9
рс	4

b	3136
рс	1

С	19
рс	5

```
coroutine w():
                      coroutine t():
                                              coroutine f():
                                                                          Imprime
                      0 int b = 1
0 int a = 0
                                              0 int c = 1
   loop:
                       loop:
                                                 loop:
   a = 2 * a + 9  1 	 b = (b + 7) * 7
                                         1 \qquad c = c + 9
                                                                          9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                          56
                                                                          10
    transfer t()
                      4 transfer w()
                                              transfer w()
                                                                          441
                                                  else:
    else:
                          else:
                                                                          19
                             transfer f()
       transfer f()
                                                      transfer t()
                                                                          3136
```

а	9
рс	4

b	3136
рс	2

С	19
рс	5

coroutine t(): coroutine w(): coroutine f(): 0 int b = 1**Imprime** 0 int a = 00 int c = 1loop: loop: loop: 1 a = 2 \* a + 9 1 b = (b + 7) \* 7 $1 \qquad c = c + 9$ 9 2 print(a) 2 print(b) 2 print(c) 3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2: 56 10 transfer t() 4 transfer w() 4 transfer w() 441 else: else: else: 19 transfer f() 5 transfer f() 5 transfer t() 3136

b	3136
рс	3

С	19
рс	5

coroutine t(): coroutine w(): coroutine f(): 0 int b = 1**Imprime** 0 int a = 00 int c = 1loop: loop: loop:  $1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7$ 1 c = c + 99 2 print(a) 2 print(b) 2 print(c) 3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2: 56 10 transfer t() 4 transfer w() 4 transfer w() 441 else: else: else: 19 transfer f() 5 transfer f() transfer t() 3136

b	3136
рс	4

С	19
рс	5

coroutine w(): coroutine t(): coroutine f(): **Imprime** 0 int b = 10 int a = 00 int c = 1loop: loop: loop: a = 2 \* a + 9 1 b = (b + 7) \* 7 $1 \qquad c = c + 9$ 9 2 print(a) 2 print(b) 2 print(c) 3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2: 56 10 transfer t() 4 transfer w() transfer w() 441 else: else: else: 19 transfer f() transfer f() transfer t() 3136

а	27
рс	1

b	3136
рс	4

С	19
рс	5

coroutine w(): coroutine t(): coroutine f(): 0 int b = 1**Imprime** 0 int a = 00 int c = 1loop: loop: loop: a = 2 \* a + 9 1 b = (b + 7) \* 7 $1 \qquad c = c + 9$ 9 print(a)
 print(b)
 print(c)
 if a mod 3 == 0:
 if b mod 3 == 1:
 if c mod 3 == 2: 56 10 transfer t() 4 transfer w() 4 transfer w() 441 else: else: else: 19 transfer f() transfer f() transfer t() 3136 27

а	27
рс	2

b	3136
рс	4

С	19
рс	5

coroutine t(): coroutine w(): coroutine f(): 0 int b = 1**Imprime** 0 int a = 00 int c = 1loop: loop: loop:  $1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7$  $1 \qquad c = c + 9$ 9 2 print(a) 2 print(b) 2 print(c) 3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2: 56 10 transfer t() 4 transfer w() 4 transfer w() 441 else: else: else: 19 transfer f() 5 transfer f() transfer t() 3136 27

а	27
рс	3

b	3136
рс	4

С	19
рс	5

coroutine w(): coroutine t(): coroutine f(): 0 int b = 1**Imprime** 0 int a = 00 int c = 1loop: loop: loop: a = 2 \* a + 9 1 b = (b + 7) \* 7 $1 \qquad c = c + 9$ 9 2 print(a) 2 print(b) 2 print(c) 3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2: 56 10 transfer t() 4 transfer w() 4 transfer w() 441 else: else: else: 19 transfer f() transfer f() transfer t() 3136 27

а	27
рс	4

b	3136
рс	4

С	19
рс	5

```
coroutine t():
coroutine w():
                                               coroutine f():
                      0 int b = 1
                                                                          Imprime
0 int a = 0
                                               0 int c = 1
   loop:
                       loop:
                                                  loop:
1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7
                                          1 c = c + 9
                                                                           9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                           56
                                                                           10
    transfer t() 4 transfer w() 4 transfer w()
                                                                           441
                                                   else:
    else:
                           else:
                                                                          19
                              transfer f()
       transfer f()
                                                      transfer t()
                                                                           3136
                                                                          27
```

a	27
рс	4

b	22001
рс	1

С	19
рс	5

```
coroutine w():
                      coroutine t():
                                                coroutine f():
                       0 int b = 1
                                                                            Imprime
0 int a = 0
                                                0 int c = 1
   loop:
                       loop:
                                                   loop:
1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7
                                          1 \qquad c = c + 9
                                                                            9
2 print(a) 2 print(b) 2 print(c) 3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                            56
                                                                            10
    transfer t() 4 transfer w() 4 transfer w()
                                                                            441
                                                    else:
    else:
                           else:
                                                                            19
                              transfer f()
       transfer f()
                                                       transfer t()
                                                                            3136
                                                                            27
                                                                            22001
```

a	27
рс	4

b	22001
рс	2

С	19
рс	5

```
coroutine w():
                      coroutine t():
                                               coroutine f():
                       0 int b = 1
                                                                          Imprime
0 int a = 0
                                               0 int c = 1
   loop:
                       loop:
                                                  loop:
1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7
                                          1 c = c + 9
                                                                           9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                           56
                                                                           10
    transfer t() 4 transfer w() 4 transfer w()
                                                                           441
                                                   else:
    else:
                           else:
                                                                           19
                              transfer f()
       transfer f()
                                                      transfer t()
                                                                           3136
                                                                           27
                                                                           22001
```

a	27
рс	4

b	22001
рс	3

С	19
рс	5

```
coroutine t():
coroutine w():
                                               coroutine f():
                       0 int b = 1
                                                                           Imprime
0 int a = 0
                                               0 int c = 1
   loop:
                       loop:
                                                  loop:
1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7
                                          1 c = c + 9
                                                                           9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                           56
                                                                           10
    transfer t() 4 transfer w() 4 transfer w()
                                                                           441
                                                   else:
    else:
                           else:
                                                                           19
                              transfer f()
       transfer f()
                                                      transfer t()
                                                                           3136
                                                                           27
                                                                           22001
```

a	27
рс	4

b	22001
рс	5

С	19
рс	5

```
coroutine w():
                      coroutine t():
                                                coroutine f():
                       0 int b = 1
                                                                           Imprime
0 int a = 0
                                                0 int c = 1
   loop:
                       loop:
                                                  loop:
1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7
                                          1 \qquad c = c + 9
                                                                            9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                            56
                                                                            10
    transfer t() 4 transfer w() 4 transfer w()
                                                                            441
                                                    else:
    else:
                           else:
                                                                            19
                              transfer f()
       transfer f()
                                                       transfer t()
                                                                            3136
                                                                            27
                                                                            22001
```

a	21
рс	4

b	22001
рс	5

С	28
рс	1

```
coroutine t():
coroutine w():
                                                coroutine f():
                       0 int b = 1
                                                                            Imprime
0 int a = 0
                                                0 int c = 1
   loop:
                       loop:
                                                   loop:
1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7
                                           1 \qquad c = c + 9
                                                                            9
2 print(a) 2 print(b) 2 print(c) 3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                            56
                                                                            10
    transfer t() 4 transfer w() 4 transfer w()
                                                                            441
                                                    else:
    else:
                           else:
                                                                            19
                              transfer f()
       transfer f()
                                                       transfer t()
                                                                            3136
                                                                            27
                                                                            22001
                                                                            28
```

а	27
рс	4

b	22001
рс	5

С	28
рс	2

```
coroutine t():
coroutine w():
                                                coroutine f():
                       0 int b = 1
                                                                            Imprime
0 int a = 0
                                                0 int c = 1
   loop:
                       loop:
                                                   loop:
1 \quad a = 2 * a + 9 \qquad 1 \quad b = (b + 7) * 7
                                           1 \qquad c = c + 9
                                                                             9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                             56
                                                                             10
    transfer t() 4 transfer w() 4 transfer w()
                                                                             441
                                                    else:
    else:
                           else:
                                                                             19
                               transfer f()
       transfer f()
                                                        transfer t()
                                                                             3136
                                                                             27
                                                                             22001
                                                                             28
```

a	27
рс	4

b	22001
рс	5

С	28
рс	3

```
coroutine t():
coroutine w():
                                               coroutine f():
                      0 int b = 1
                                                                          Imprime
0 int a = 0
                                               0 int c = 1
   loop:
                       loop:
                                                  loop:
   a = 2 * a + 9  1 	 b = (b + 7) * 7
                                          1 \qquad c = c + 9
                                                                           9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                           56
                                                                           10
    transfer t() 4 transfer w() 4 transfer w()
                                                                           441
                                                   else:
    else:
                           else:
                                                                           19
                              transfer f()
       transfer f()
                                                      transfer t()
                                                                           3136
                                                                           27
                                                                           22001
                                                                           28
```

а	27
рс	4

b	22001
рс	5

С	28
рс	5

```
coroutine t():
coroutine w():
                                               coroutine f():
                      0 int b = 1
                                                                          Imprime
0 int a = 0
                                               0 int c = 1
   loop:
                       loop:
                                                 loop:
   a = 2 * a + 9  1  b = (b + 7) * 7
                                         1 \qquad c = c + 9
                                                                          9
2 print(a) 2 print(b) 2 print(c)
3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                          56
                                                                          10
    transfer t() 4 transfer w() 4 transfer w()
                                                                          441
                                                   else:
    else:
                          else:
                                                                          19
                              transfer f()
       transfer f()
                                                      transfer t()
                                                                          3136
                                                                          27
                                                                          22001
                                                                          28
```

а	27
рс	4

b	154056
рс	1

С	28
рс	5

```
coroutine t():
coroutine w():
                                              coroutine f():
                      0 int b = 1
                                                                         Imprime
0 int a = 0
                                              0 int c = 1
   loop:
                      loop:
                                                 loop:
1 a = 2 * a + 9 1 b = (b + 7) * 7
                                         1 \qquad c = c + 9
                                                                         9
2 print(a) 2 print(b) 2 print(c) 3 if a mod 3 == 0: 3 if b mod 3 == 1: 3 if c mod 3 == 2:
                                                                         56
                                                                         10
    transfer t() 4 transfer w() 4 transfer w()
                                                                         441
                                                  else:
    else:
                          else:
                                                                         19
                             transfer f()
       transfer f()
                                                     transfer t()
                                                                         3136
                                                                         27
                                                                         22001
                                                                         28
                                                                         154056
```

a	21
рс	4

b	154056
рс	2

С	28
рс	5

## El programa continuará ejecutándose...

## Imprime

```
19
3136
27
22001
28
154056
```