# EJERCICIO 6 (A=9,B=5,C=9)

BY LUIS PARRA

Empezamos en W con estado inicial:

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

```
Rutina w

a 0
pc 2
```

```
1  coroutine t():
2   int b = 1
3   loop:
4   b = (b + 1) * B
5   print(b)
6   if b mod 3 == 1
7   transfer w()
8   else:
9   transfer f()
```

```
Entramos al loop y
hacemos linea 4. Con A = 9
```

```
coroutine w():
```

|    | corouctile w(). |
|----|-----------------|
| 2  | int a = 0       |
| 3  | loop:           |
| 4  | a = a + A       |
| 5  | print(a)        |
| 6  | if a mod 3 == 0 |
| 7  | transfer t()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |

```
coroutine t():
       b = (b + 1) * B
       print(b)
           transfer w()
       else:
           transfer f()
```

```
coroutine f():
   loop:
       print(c)
           transfer w()
```

```
Rutina w
                  9
a
рс
```

#### Imprimimos A

| Rutina w |   |
|----------|---|
| а        | 9 |
| рс       | 5 |

```
IMPRESOS: 9,
```

```
1  coroutine t():
2   int b = 1
3   loop:
4   b = (b + 1) * B
5   print(b)
6   if b mod 3 == 1
7   transfer w()
8   else:
9   transfer f()
```

Hacemos el if, se cumple.

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| Rutina w |   |
|----------|---|
| а        | 9 |
| рс       | 6 |

```
IMPRESOS: 9,
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

Damamos a T y le cedemos la continuidad.

| Rutina w |   |
|----------|---|
| а        | 9 |
| рс       | 7 |

```
IMPRESOS: 9,
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

```
Rutina w

a 9
pc 7
```

IMPRESOS: 9,

Comenzamos con estado inicial:

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

```
Rutina T

b 1

pc 2
```

```
coroutine w():
    int a = 0
    loop:
        print(a)
        if a mod 3 == 0
            transfer t()
       else:
            transfer f()
```

9

# coroutine t(): int b = 1loop:

```
b = (b + 1) * B
             print(b)
             if b mod 3 == 1
                 transfer w()
             else:
                 transfer f()
10
```

Ejecutamos linea 4 con B=5

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 4  |

```
IMPRESOS: 9,
```

a

рс

```
coroutine f():
    loop:
       print(c)
           transfer w()
       else:
           transfer t()
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

9

```
Imprimimos b en linea 5
```

```
1  coroutine t():
2     int b = 1
3     loop:
4     b = (b + 1) * B
5     print(b)
6     if b mod 3 == 1
7          transfer w()
8     else:
9          transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 5  |

```
IMPRESOS: 9, 10
```

a

рс

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

```
Rutina w

a 9
pc 7
```

IMPRESOS: 9, 10

Verificamos el if linea 6. Se cumple.

```
1  coroutine t():
2     int b = 1
3     loop:
4     b = (b + 1) * B
5     print(b)
6     if b mod 3 == 1
7          transfer w()
8     else:
9          transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 6  |

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
    transfer t()
    else:
    transfer f()
```

9

```
Le pasamos la continuidad a la rutina w

1 coroutine t():
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 7  |

```
IMPRESOS: 9, 10
```

a

рс

Continuamos desde donde lo dejamos.

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| Rutina w |   |
|----------|---|
| а        | 9 |
| рс       | 7 |

```
IMPRESOS: 9, 10
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 7  |

```
Por el loop. Saltamos a linea 4 nuevamente. A = 9
```

| Rutina w |    |
|----------|----|
| а        | 18 |
| рс       | 4  |

```
IMPRESOS: 9, 10
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7    | transfer w()
8    else:
9    | transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 7  |

```
Imprimimos A en linea 5
```

```
coroutine w():
         int a = 0
         loop:
             a = a + A
             print(a)
             if a mod 3 == 0
                 transfer t()
             else:
                 transfer f()
10
```

| Rutina w |    |
|----------|----|
| а        | 18 |
| рс       | 5  |

```
IMPRESOS: 9, 10, 18
```

```
coroutine t():
       b = (b + 1) * B
       print(b)
       if b mod 3 == 1
           transfer w()
       else:
           transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 7  |

```
coroutine f():
   loop:
       print(c)
           transfer w()
       else:
           transfer t()
```

Chequeamos el if linea 6. Se cumple

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| Rutina w |    |
|----------|----|
| а        | 18 |
| рс       | 6  |

```
IMPRESOS: 9, 10, 18
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 7  |

Le cedemos la continuidad a T

| Rutina w |    |
|----------|----|
| а        | 18 |
| рс       | 7  |

```
IMPRESOS: 9, 10, 18
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 7  |

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
    transfer t()
    else:
    transfer f()
```

```
Retomamos desde donde lo dejamos
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 10 |
| рс       | 7  |

```
IMPRESOS: 9, 10, 18
```

a

рс

18

a

рс

18

```
Saltamos a la linea 4 por el loop.. B=5
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7    transfer w()
8    else:
9    transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 55 |
| рс       | 4  |

```
IMPRESOS: 9, 10, 18
```

### Imprimimos b en linea 5

```
1  coroutine t():
2     int b = 1
3     loop:
4     b = (b + 1) * B
5     print(b)
6     if b mod 3 == 1
7          transfer w()
8     else:
9          transfer f()
```

| 2  | int c = 1        |
|----|------------------|
| 3  | loop:            |
| 4  | c = 2 * (c + C)  |
| 5  | print(c)         |
| 6  | if b mod 3 == 2: |
| 7  | transfer w()     |
| 8  | else:            |
| 9  | transfer t()     |
| 10 |                  |
|    |                  |

coroutine f():

```
Rutina w

a 18
pc 7
```

```
Rutina T

b 55

pc 5
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
    transfer t()
    else:
    transfer f()
```

a

рс

18

## Verificamos el if. Se cumple

```
1  coroutine t():
2     int b = 1
3     loop:
4     b = (b + 1) * B
5     print(b)
6     if b mod 3 == 1
7          transfer w()
8     else:
9          transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 55 |
| рс       | 6  |

```
IMPRESOS: 9, 10, 18, 55
```

a

рс

18

```
Le cedemos el control nuevamente a W
```

```
1  coroutine t():
2     int b = 1
3     loop:
4     b = (b + 1) * B
5     print(b)
6     if b mod 3 == 1
7          transfer w()
8     else:
9          transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 55 |
| рс       | 7  |

```
IMPRESOS: 9, 10, 18, 55
```

Y continuamos.

| Rutina w |    |
|----------|----|
| а        | 18 |
| рс       | 7  |

```
IMPRESOS: 9, 10, 18, 55
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 55 |
| рс       | 7  |

```
Volvemos a linea 4 por el loop. A = 9
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
    transfer t()
    else:
    transfer f()
```

| Rutina w |    |
|----------|----|
| а        | 27 |
| рс       | 4  |

```
IMPRESOS: 9, 10, 18, 55
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 55 |
| рс       | 7  |

Imprimimos a. En linea 5

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

|    | Rutina w |
|----|----------|
| а  | 27       |
| рс | 5        |

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 55 |
| рс       | 7  |

Verificamos el if. Se cumple

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| Rutina w |    |  |
|----------|----|--|
| а        | 27 |  |
| рс       | 6  |  |

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7    | transfer w()
8    else:
9    transfer f()
```

| Rutina T |    |
|----------|----|
| b        | 55 |
| рс       | 7  |

```
Y le cedemos la continuidad a T
```

| 10 |          |
|----|----------|
|    | Rutina w |
| а  | 27       |
| nc | 7        |

| Rutina T |    |
|----------|----|
| b        | 55 |
| рс       | 7  |

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

```
Y retomamos donde se dejo.
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina w |    |
|----------|----|
| а        | 27 |
| рс       | 7  |

```
Rutina T

b 55
pc 7
```

```
IMPRESOS: 9, 10, 18, 55, 27
```

```
1  coroutine f():
2   int c = 1
3   loop:
4   c = 2 * (c + C)
5   print(c)
6   if b mod 3 == 2:
7   transfer w()
8   else:
9   transfer t()
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

```
Y vamos de nuevo a la linea 4. con B=5
```

```
1  coroutine t():
2     int b = 1
3     loop:
4     b = (b + 1) * B
5     print(b)
6     if b mod 3 == 1
7          transfer w()
8     else:
9          transfer f()
```

| Rutina w |    |
|----------|----|
| а        | 27 |
| рс       | 7  |

```
Rutina T
b 280
pc 4
```

coroutine f():

#### Imprimimos b en linea 5

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |

| Rutina w |    |
|----------|----|
| а        | 27 |
| рс       | 7  |

```
Rutina T

b 280
pc 5
```

```
1  coroutine f():
2   int c = 1
3   loop:
4   c = 2 * (c + C)
5   print(c)
6   if b mod 3 == 2:
7   transfer w()
8   else:
9   transfer t()
```

#### Verficamos el if. Se cumple

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |

| Rutina w |    |
|----------|----|
| а        | 27 |
| рс       | 7  |

```
Rutina T

b 280
pc 6
```

#### Le cedemos el balón a W

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |

| Rutina w |    |
|----------|----|
| а        | 27 |
| рс       | 7  |

| Rutina T |     |
|----------|-----|
| b        | 280 |
| рс       | 7   |

Y continuamos por donde se dejó.

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |

| Rutina w |    |
|----------|----|
| а        | 27 |
| рс       | 7  |

```
Rutina T

b 280
pc 7
```

```
Saltamos a linea 4. con A=9
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| 1 coroutine t(): |       |
|------------------|-------|
| 2 int b = 1      |       |
| 3 <b>loop:</b>   |       |
| 4 	 b = (b + 1)  | * B   |
| 5 print(b)       |       |
| 6 if b mod 3     | == 1  |
| 7 transfe        | r w() |
| 8 else:          |       |
| 9 transfe        | r f() |
| 10               |       |
|                  |       |

| Rutina w |    |
|----------|----|
| а        | 36 |
| рс       | 4  |

```
Rutina T

b 280
pc 7
```

Imprimimos a.

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| 1   | coroutine t():  |
|-----|-----------------|
| 2   | int b = 1       |
| 3   | loop:           |
| 4   | b = (b + 1) * B |
| . 5 | print(b)        |
| 6   | if b mod 3 == 1 |
| 7   | transfer w()    |
| 8   | else:           |
| 9   | transfer f()    |
| 10  |                 |
|     |                 |

| Rutina w |    |
|----------|----|
| а        | 36 |
| рс       | 5  |

```
Rutina T

b 280
pc 7
```

Verificamos el if. Se cumple

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |
|    |                 |

| Rutina w |    |  |
|----------|----|--|
| а        | 36 |  |
| рс       | 6  |  |

```
Rutina T

b 280
pc 7
```

Y volvemos a cederle el puesto a T

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
| _  |                 |

| Rutina w |    |  |
|----------|----|--|
| а        | 36 |  |
| рс       | 7  |  |

```
Rutina T

b 280
pc 7
```

### Retomamos otra vez

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |

| Rutina w |    |
|----------|----|
| а        | 36 |
| рс       | 7  |

```
Rutina T

b 280
pc 7
```

```
1  coroutine f():
2   int c = 1
3   loop:
4   c = 2 * (c + C)
5   print(c)
6   if b mod 3 == 2:
7   transfer w()
8   else:
9   transfer t()
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

```
Como es tradicion. A linea 4. B = 5
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina w |    |
|----------|----|
| а        | 36 |
| рс       | 7  |

| Rutina T |      |
|----------|------|
| b        | 1405 |
| рс       | 4    |

# coroutine w(): int a = 0 loop: a = a + A print(a) if a mod 3 == 0 transfer t() else: transfer f()

### Imprimimos b

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina T |      |
|----------|------|
| b        | 1405 |
| рс       | 5    |

```
Rutina w

a 36
pc 7
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

```
Verificamos el if. Se cumple
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina w |    |
|----------|----|
| а        | 36 |
| рс       | 7  |

```
Rutina T
b 1405
pc 6
```

F esta muy F

## Le cedemos e paso a W

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina w |    |
|----------|----|
| а        | 36 |
| рс       | 7  |

| Rutina T |      |
|----------|------|
| b        | 1405 |
| рс       | 7    |

```
1  coroutine f():
2   int c = 1
3   loop:
4   c = 2 * (c + C)
5   print(c)
6   if b mod 3 == 2:
7   transfer w()
8   else:
9   transfer t()
```

Retomamos el control de flujo desde donde lo dejamos

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
| _  |                 |

| Rutina w |    |
|----------|----|
| а        | 36 |
| рс       | 7  |

```
Rutina T

b 1405
pc 7
```

```
1  coroutine f():
2   int c = 1
3   loop:
4   c = 2 * (c + C)
5   print(c)
6   if b mod 3 == 2:
7   transfer w()
8   else:
9   transfer t()
```

Vamos a la linea 4. A= 9

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |

| Rutina w |    |
|----------|----|
| а        | 45 |
| рс       | 4  |

```
Rutina T
b 1405
pc 7
```

```
1  coroutine f():
2   int c = 1
3   loop:
4   c = 2 * (c + C)
5   print(c)
6   if b mod 3 == 2:
7   transfer w()
8   else:
9   transfer t()
```

Imprimimos a

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |

| Rutina w |    |
|----------|----|
| а        | 45 |
| рс       | 5  |

```
Rutina T

b 1405
pc 7
```

Verificamos el If. Se cumple

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
|    |                 |

| Rutina w |    |
|----------|----|
| а        | 45 |
| рс       | 6  |

```
        Rutina T

        b
        1405

        pc
        7
```

Le cedemos la continuidad a T

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| 1  | coroutine t():  |
|----|-----------------|
| 2  | int b = 1       |
| 3  | loop:           |
| 4  | b = (b + 1) * B |
| 5  | print(b)        |
| 6  | if b mod 3 == 1 |
| 7  | transfer w()    |
| 8  | else:           |
| 9  | transfer f()    |
| 10 |                 |
| _  |                 |

| Rutina w |    |
|----------|----|
| а        | 45 |
| рс       | 7  |

```
        Rutina T

        b
        1405

        pc
        7
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

```
Y retomamos una ultima vez
```

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina w |    |
|----------|----|
| а        | 45 |
| рс       | 7  |

```
        Rutina T

        b
        1405

        pc
        7
```

```
1  coroutine f():
2   int c = 1
3   loop:
4   c = 2 * (c + C)
5   print(c)
6   if b mod 3 == 2:
7   transfer w()
8   else:
9   transfer t()
```

```
Vamos a la linea 4. B=5
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

| 1   | coroutine t():  |
|-----|-----------------|
| 2   | int b = 1       |
| 3   | loop:           |
| 4   | b = (b + 1) * B |
| . 5 | print(b)        |
| 6   | if b mod 3 == 1 |
| 7   | transfer w()    |
| 8   | else:           |
| 9   | transfer f()    |
| 10  |                 |
|     |                 |

| Rutina w |    |
|----------|----|
| а        | 45 |
| рс       | 7  |

| Rutina T |      |
|----------|------|
| b        | 7030 |
| рс       | 4    |

```
1  coroutine f():
2   int c = 1
3   loop:
4   c = 2 * (c + C)
5   print(c)
6   if b mod 3 == 2:
7   transfer w()
8   else:
9   transfer t()
```

```
coroutine w():
    int a = 0
    loop:
    a = a + A
    print(a)
    if a mod 3 == 0
        transfer t()
    else:
        transfer f()
```

Imprimimos b. Y con eso acabamos esta corrida. El progama continua.

```
1  coroutine t():
2    int b = 1
3    loop:
4    b = (b + 1) * B
5    print(b)
6    if b mod 3 == 1
7         transfer w()
8    else:
9         transfer f()
```

| Rutina w |    |
|----------|----|
| а        | 45 |
| рс       | 7  |

| Rutina T |      |
|----------|------|
| b        | 7030 |
| рс       | 5    |

```
1  coroutine f():
2   int c = 1
3   loop:
4   c = 2 * (c + C)
5   print(c)
6   if b mod 3 == 2:
7   transfer w()
8   else:
9   transfer t()
```

# Al final las 3 corutinas imprimen los primeros 10 numeros

```
coroutine w():
         int a = 0
         loop:
             a = a + A
             print(a)
             if a mod 3 == 0
                  transfer t()
             else:
                  transfer f()
10
```

```
coroutine t():
         int b = 1
         loop:
             b = (b + 1) * B
             print(b)
             if b mod 3 == 1
                 transfer w()
             else:
                 transfer f()
10
```

```
coroutine f():
    int c = 1
    loop:
        c = 2 * (c + c)
        print(c)
        if b mod 3 == 2:
            transfer w()
        else:
            transfer t()
```