



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

BY LUIS PARRA

Empezamos en W con estado inicial:

```
1 coroutine 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
```

```
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
```

```
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()
10
```

Rutina w

a	0
pc	2

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

```
1  coroutine 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
```

```
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
```

```
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()
10
```

Rutina w

a	9
pc	4

Imprimimos A

```
1 coroutine 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
```

Rutina w

a	9
pc	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()
10
```

```
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()
10
```

Hacemos el if, se cumple.

```
1 coroutine 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
```

Rutina w

a	9
pc	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()
10
```

```
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()
10
```

Llamamos a T y le cedemos la continuidad.

```
1 coroutine 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
```

Rutina w

a	9
pc	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()
10
```

```
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()
10
```

Comenzamos con estado inicial:

```
1 coroutine 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
```

Rutina w

a	9
pc	7

```
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 T

b	1
pc	2

```
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()
10
```

IMPRESOS: 9,

Ejecutamos linea 4 con B=5

```
1 coroutine 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
```

Rutina w

a	9
pc	7

```
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 T

b	10
pc	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()
10
```

IMPRESOS: 9,

Imprimimos b en linea 5

```
1 coroutine 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
```

Rutina w

a	9
pc	7

```
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 T

b	10
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()
10
```

IMPRESOS: 9, 10

Verificamos el if linea 6. Se cumple.

```
1 coroutine 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
```

Rutina w

a	9
pc	7

```
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 T

b	10
pc	6

```
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()
10
```

IMPRESOS: 9, 10

Le pasamos la continuidad
a la rutina w

```
1 coroutine 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
```

Rutina w

a	9
pc	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()
10
```

Rutina T

b	10
pc	7

Continuamos desde donde lo dejamos.

```
1 coroutine 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
```

Rutina w	
a	9
pc	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()
10
```

Rutina T	
b	10
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()
10
```

Por el loop. Saltamos a
línea 4 nuevamente. $A = 9$

```
1  coroutine 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
```

Rutina w	
a	18
pc	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()
10
```

Rutina T	
b	10
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()
10
```

Imprimimos A en linea 5

```
1 coroutine 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
```

Rutina w	
a	18
pc	5

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()
10
```

Rutina T	
b	10
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()
10
```

Chequeamos el if linea 6.
Se cumple

```
1  coroutine 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
```

Rutina w

a	18
pc	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()
10
```

Rutina T

b	10
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()
10
```

Le cedemos la continuidad
a T

```
1 coroutine 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
```

Rutina w	
a	18
pc	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()
10
```

Rutina T	
b	10
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()
10
```


Retomamos desde donde lo dejamos

```
1 coroutine 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
```

Rutina w

a	18
pc	7

```
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 T

b	10
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()
10
```

IMPRESOS: 9, 10, 18

Saltamos a la línea 4 por el loop.. B= 5

```
1 coroutine 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
```

Rutina w

a	18
pc	7

```
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 T

b	55
pc	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()
10
```

IMPRESOS: 9, 10, 18

Imprimimos b en linea 5

```
1 coroutine 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
```

Rutina w

a	18
pc	7

```
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 T

b	55
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()
10
```

IMPRESOS: 9, 10, 18, 55

Verificamos el if. Se cumple

```
1 coroutine 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
```

Rutina w

a	18
pc	7

```
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 T

b	55
pc	6

```
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()
10
```

IMPRESOS: 9, 10, 18, 55

Le cedemos el control
nuevamente a W

```
1 coroutine 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
```

Rutina w

a	18
pc	7

```
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 T

b	55
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()
10
```

IMPRESOS: 9, 10, 18, 55

Y continuamos.

```
1 coroutine 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
```

Rutina w

a	18
pc	7

```
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 T

b	55
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()
10
```

IMPRESOS: 9, 10, 18, 55

Volvemos a linea 4 por el loop. A = 9

```
1 coroutine 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
```

Rutina w	
a	27
pc	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()
10
```

Rutina T	
b	55
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()
10
```

Imprimimos a. En linea 5

```
1 coroutine 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
```

Rutina w

a	27
pc	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()
10
```

Rutina T

b	55
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()
10
```

IMPRESOS: 9, 10, 18, 55, 27

Verificamos el if. Se cumple

```
1 coroutine 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
```

Rutina w

a	27
pc	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()
10
```

Rutina T

b	55
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()
10
```

IMPRESOS: 9, 10, 18, 55, 27

Y le cedemos la
continuidad a T

```
1 coroutine 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
```

Rutina w

a	27
pc	7

```
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 T

b	55
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()
10
```

IMPRESOS: 9, 10, 18, 55, 27

Y retomamos donde se
dejo.

```
1 coroutine 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
```

Rutina w

a	27
pc	7

```
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 T

b	55
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()
10
```

IMPRESOS: 9, 10, 18, 55, 27

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

```
1 coroutine 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
```

Rutina w

a	27
pc	7

```
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 T

b	280
pc	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()
10
```

IMPRESOS: 9, 10, 18, 55, 27

Imprimimos b en linea 5

```
1 coroutine 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
```

Rutina w

a	27
pc	7

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280

Verificamos el if. Se cumple

```
1 coroutine 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
```

Rutina w

a	27
pc	7

```
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 T

b	280
pc	6

```
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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280

Le cedemos el balón a W

```
1 coroutine 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
```

Rutina w

a	27
pc	7

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280

Y continuamos por donde se dejó.

```
1 coroutine 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
```

Rutina w

a	27
pc	7

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280

Saltamos a linea 4. con
A=9

```
1 coroutine 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
```

Rutina w

a	36
pc	4

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280

Imprimimos a.

```
1 coroutine 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
```

Rutina w

a	36
pc	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()
10
```

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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36

Verificamos el if. Se cumple

```
1 coroutine 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
```

Rutina w

a	36
pc	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()
10
```

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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36

Y volvemos a cederle el
puesto a T

```
1 coroutine 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
```

Rutina w

a	36
pc	7

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36

Retomamos otra vez

```
1 coroutine 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
```

Rutina w

a	36
pc	7

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36

Como es tradicion. A linea
4. B =5

```
1 coroutine 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
```

Rutina w

a	36
pc	7

```
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 T

b	1405
pc	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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36

Imprimimos b

```
1 coroutine 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
```

Rutina w

a	36
pc	7

```
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 T

b	1405
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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405

Verificamos el if. Se cumple

```
1 coroutine 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
```

Rutina w

a	36
pc	7

```
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 T

b	1405
pc	6

```
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()
10
```

F esta muy F

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405

Le cedemos e paso a W

```
1 coroutine 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
```

Rutina w

a	36
pc	7

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405

Retomamos el control de flujo desde donde lo dejamos

```
1 coroutine 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
```

Rutina w

a	36
pc	7

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405

Vamos a la linea 4. A= 9

```
1 coroutine 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
```

Rutina w

a	45
pc	4

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405

Imprimimos a

```
1 coroutine 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
```

Rutina w

a	45
pc	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()
10
```

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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405, 45

Verificamos el If. Se cumple

```
1 coroutine 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
```

Rutina w

a	45
pc	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()
10
```

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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405, 45

Le cedemos la continuidad
a T

```
1 coroutine 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
```

Rutina w

a	45
pc	7

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405, 45

Y retomamos una ultima vez

```
1 coroutine 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
```

Rutina w

a	45
pc	7

```
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 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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405, 45

Vamos a la linea 4. B =5

```
1 coroutine 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
```

Rutina w

a	45
pc	7

```
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 T

b	7030
pc	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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405, 45

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

```
1 coroutine 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
```

Rutina w

a	45
pc	7

```
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 T

b	7030
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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405, 45, 7030

Al final las 3 corutinas imprimen los primeros 10 numeros

```
1 coroutine 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
```

```
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
```

```
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()
10
```

IMPRESOS: 9, 10, 18, 55, 27, 280, 36, 1405, 45, 7030