

PARCIAL II - CI3641 - JOAO PINTO 17-10490

PREGUNTA 4

PARTE A

EJECUCIÓN PASO A PASO

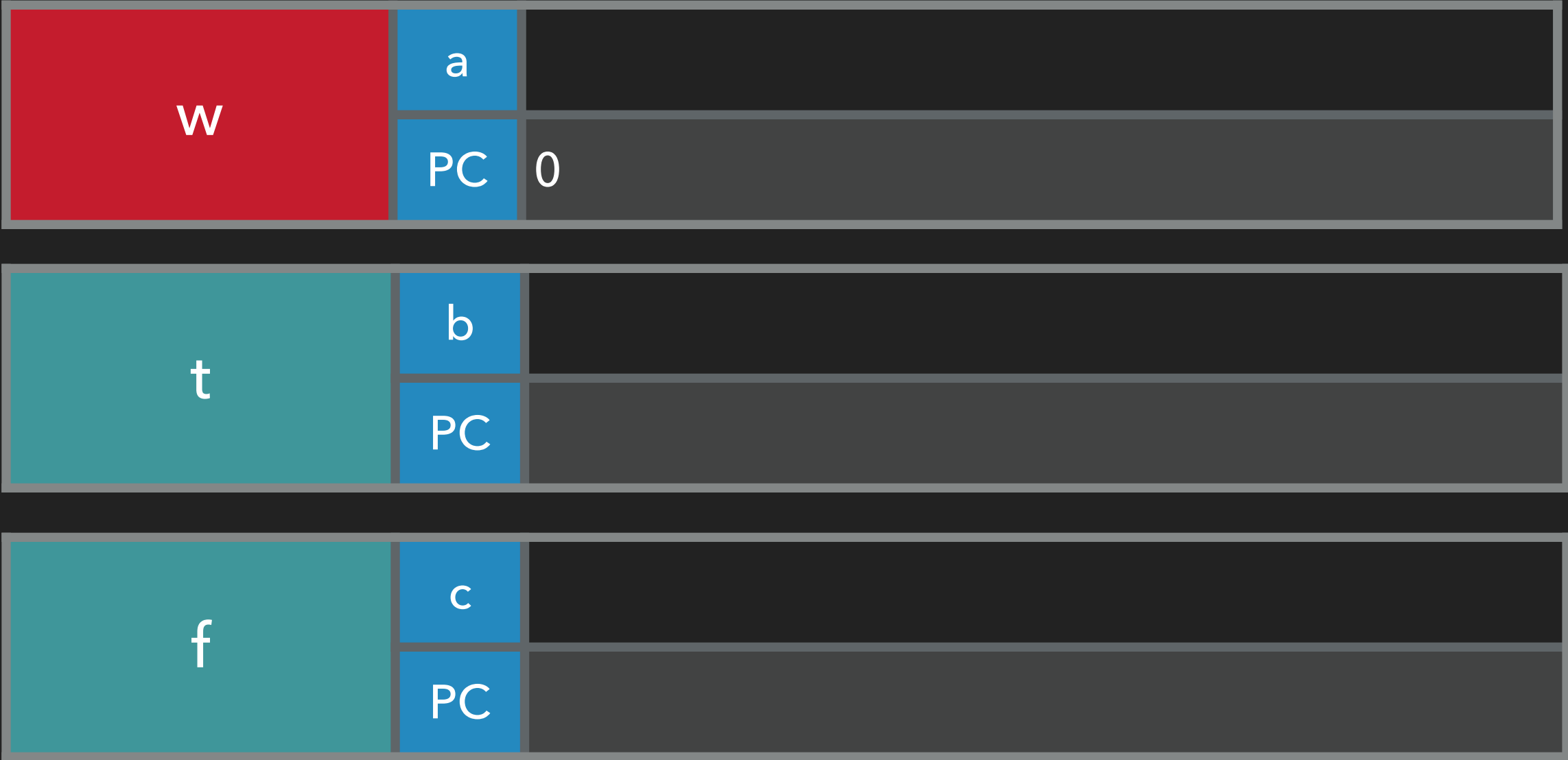
```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
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>



```
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▶ 6   else:
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```

IMPRIME

>

w	a	0
	PC	2
t	b	
	PC	
f	c	
	PC	

```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
▶ 2         a = a + 9
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```

IMPRIME

```
>
```

w	a	9
	PC	3
t	b	
	PC	
f	c	
	PC	

```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
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▶ 7             transfer t()
```

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```
> 9
```

w	a	9
	PC	4
t	b	
	PC	
f	c	
	PC	

```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
▶ 2         a = a + 9
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▶ 5             transfer w()
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▶ 7             transfer t()
```

IMPRIME

```
> 9
```

w	a	9
	PC	7
t	b	
	PC	
f	c	
	PC	

```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
▶ 2         a = a + 9
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▶ 6         else:
▶ 7             transfer t()
```

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```
> 9
```

w	a	9
	PC	7
t	b	
	PC	
f	c	
	PC	0


```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
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▶ 5           transfer t()
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```

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```
> 9
```

w	a	9
	PC	7
t	b	
	PC	
f	c	1
	PC	2

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
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```
coroutine t():
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▶ 7           transfer t()
```

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```
> 9
```

w	a	9
	PC	7
t	b	
	PC	
f	c	2
	PC	3

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
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▶ 7           transfer t()
```

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```
> 9
> 2
```

w	a	9
	PC	7
t	b	
	PC	
f	c	2
	PC	4

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
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```

```
coroutine t():
▶ 0   int b = 1
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▶ 7           transfer t()
```

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> 9
> 2

w	a	9
	PC	7
t	b	
	PC	
f	c	2
	PC	5

```
coroutine w():
> 0    int a = 0
> 1    loop:
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> 6      else:
> 7          transfer t()
```

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```
> 9
> 2
```

w	a	9
	PC	2
t	b	
	PC	
f	c	2
	PC	5

```
coroutine w():
> 0    int a = 0
> 1    loop:
> 2        a = a + 9
> 3    print(a)
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```

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```
> 9
> 2
```

w	a	18
	PC	3
t	b	
	PC	
f	c	2
	PC	5

```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
▶ 2         a = a + 9
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▶ 6         else:
▶ 7             transfer t()
```

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```
> 9
> 2
> 18
```

w	a	18
	PC	4
t	b	
	PC	
f	c	2
	PC	5

```
coroutine w():
> 0    int a = 0
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> 7            transfer t()
```

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```
> 9
> 2
> 18
```

w	a	18
	PC	5
t	b	
	PC	
f	c	2
	PC	5


```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
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▶ 6       else:
▶ 7           transfer t()
```

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```
> 9
> 2
> 18
```

w	a	18
	PC	5
t	b	
	PC	0
f	c	2
	PC	5

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
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```

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```
> 9
> 2
> 18
```

w	a	18
	PC	5
t	b	1
	PC	2
f	c	2
	PC	5

```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
▶ 2         a = a + 9
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```

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```
> 9
> 2
> 18
```

w	a	18
	PC	5
t	b	22
	PC	3
f	c	2
	PC	5

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

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```
> 9
> 2
> 18
> 22
```

w	a	18
	PC	5
t	b	22
	PC	4
f	c	2
	PC	5

```
coroutine w():
> 0   int a = 0
> 1   loop:
> 2       a = a + 9
> 3       print(a)
> 4       if a mod 2 == 0:
> 5           transfer t()
> 6       else:
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coroutine t():
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> 7           transfer t()
```

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```
> 9
> 2
> 18
> 22
```

w	a	18
	PC	5
t	b	22
	PC	5
f	c	2
	PC	5

```
coroutine w():
> 0   int a = 0
> 1   loop:
> 2   a = a + 9
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```

IMPRIME

```
> 9
> 2
> 18
> 22
```

w	a	18
	PC	2
t	b	22
	PC	5
f	c	2
	PC	5

```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
▶ 2         a = a + 9
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▶ 3     print(c)
▶ 4     if c mod 2 == 0:
▶ 5         transfer w()
▶ 6     else:
▶ 7         transfer t()
```

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```
> 9
> 2
> 18
> 22
```

w	a	27
	PC	3
t	b	22
	PC	5
f	c	2
	PC	5

```
coroutine w():
> 0   int a = 0
> 1   loop:
> 2       a = a + 9
> 3       print(a)
> 4       if a mod 2 == 0:
> 5           transfer t()
> 6       else:
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```
coroutine t():
> 0   int b = 1
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```
coroutine f():
> 0   int c = 1
> 1   loop:
> 2       c = c + 1
> 3       print(c)
> 4       if c mod 2 == 0:
> 5           transfer w()
> 6       else:
> 7           transfer t()
```

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> 9
> 2
> 18
> 22
> 27

w	a	27
	PC	4
t	b	22
	PC	5
f	c	2
	PC	5


```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
▶ 2         a = a + 9
▶ 3         print(a)
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```
coroutine t():
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```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
```

w	a	27
	PC	7
t	b	22
	PC	5
f	c	2
	PC	5

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
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```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
```

w	a	27
	PC	7
t	b	22
	PC	5
f	c	2
	PC	2

```
coroutine w():
▶ 0     int a = 0
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coroutine f():
▶ 0     int c = 1
▶ 1     loop:
▶ 2         c = c + 1
▶ 3         print(c)
▶ 4         if c mod 2 == 0:
▶ 5             transfer w()
▶ 6         else:
▶ 7             transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
```

w	a	27
	PC	7
t	b	22
	PC	5
f	c	3
	PC	3

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
▶ 3       print(b)
▶ 4       if b mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine f():
▶ 0   int c = 1
▶ 1   loop:
▶ 2       c = c + 1
▶ 3       print(c)
▶ 4       if c mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
```

w	a	27
	PC	7
t	b	22
	PC	5
f	c	3
	PC	4

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
▶ 3       print(b)
▶ 4       if b mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine f():
▶ 0   int c = 1
▶ 1   loop:
▶ 2       c = c + 1
▶ 3       print(c)
▶ 4       if c mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer t()
```

IMPRIME

> 9
> 2
> 18
> 22
> 27
> 3

w	a	27
	PC	7
t	b	22
	PC	5
f	c	3
	PC	7

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
▶ 3       print(b)
▶ 4       if b mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine f():
▶ 0   int c = 1
▶ 1   loop:
▶ 2       c = c + 1
▶ 3       print(c)
▶ 4       if c mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer t()
```

IMPRIME

> 9
> 2
> 18
> 22
> 27
> 3

w	a	27
	PC	7
t	b	22
	PC	2
f	c	3
	PC	7

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
▶ 3       print(b)
▶ 4       if b mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine f():
▶ 0   int c = 1
▶ 1   loop:
▶ 2       c = c + 1
▶ 3       print(c)
▶ 4       if c mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
```

w	a	27
	PC	7
t	b	253
	PC	3
f	c	3
	PC	7

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
▶ 3       print(b)
▶ 4       if b mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine f():
▶ 0   int c = 1
▶ 1   loop:
▶ 2       c = c + 1
▶ 3       print(c)
▶ 4       if c mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
```

w	a	27
	PC	7
t	b	253
	PC	4
f	c	3
	PC	7


```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
▶ 3       print(b)
▶ 4       if b mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine f():
▶ 0   int c = 1
▶ 1   loop:
▶ 2       c = c + 1
▶ 3       print(c)
▶ 4       if c mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
```

w	a	27
	PC	7
t	b	253
	PC	7
f	c	3
	PC	7

```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
▶ 2         a = a + 9
▶ 3         print(a)
▶ 4         if a mod 2 == 0:
▶ 5             transfer t()
▶ 6         else:
▶ 7             transfer f()
```

```
coroutine t():
▶ 0     int b = 1
▶ 1     loop:
▶ 2         b = (b + 1) * 11
▶ 3         print(b)
▶ 4         if b mod 2 == 0:
▶ 5             transfer w()
▶ 6         else:
▶ 7             transfer f()
```

```
coroutine f():
▶ 0     int c = 1
▶ 1     loop:
▶ 2         c = c + 1
▶ 3         print(c)
▶ 4         if c mod 2 == 0:
▶ 5             transfer w()
▶ 6         else:
▶ 7             transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
```

w	a	27
	PC	7
t	b	253
	PC	7
f	c	3
	PC	2

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
▶ 3       print(b)
▶ 4       if b mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine f():
▶ 0   int c = 1
▶ 1   loop:
▶ 2       c = c + 1
▶ 3       print(c)
▶ 4       if c mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
```

w	a	27
	PC	7
t	b	253
	PC	7
f	c	4
	PC	3

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
▶ 3       print(b)
▶ 4       if b mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine f():
▶ 0   int c = 1
▶ 1   loop:
▶ 2       c = c + 1
▶ 3       print(c)
▶ 4       if c mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
> 4
```

w	a	27
	PC	7
t	b	253
	PC	7
f	c	4
	PC	4

```
coroutine w():
▶ 0   int a = 0
▶ 1   loop:
▶ 2       a = a + 9
▶ 3       print(a)
▶ 4       if a mod 2 == 0:
▶ 5           transfer t()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine t():
▶ 0   int b = 1
▶ 1   loop:
▶ 2       b = (b + 1) * 11
▶ 3       print(b)
▶ 4       if b mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer f()
```

```
coroutine f():
▶ 0   int c = 1
▶ 1   loop:
▶ 2       c = c + 1
▶ 3       print(c)
▶ 4       if c mod 2 == 0:
▶ 5           transfer w()
▶ 6       else:
▶ 7           transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
> 4
```

w	a	27
	PC	7
t	b	253
	PC	7
f	c	4
	PC	5

```
coroutine w():
> 0    int a = 0
> 1    loop:
> 2    a = a + 9
> 3    print(a)
> 4    if a mod 2 == 0:
> 5        transfer t()
> 6    else:
> 7        transfer f()
```

```
coroutine t():
> 0    int b = 1
> 1    loop:
> 2    b = (b + 1) * 11
> 3    print(b)
> 4    if b mod 2 == 0:
> 5        transfer w()
> 6    else:
> 7        transfer f()
```

```
coroutine f():
> 0    int c = 1
> 1    loop:
> 2    c = c + 1
> 3    print(c)
> 4    if c mod 2 == 0:
> 5        transfer w()
> 6    else:
> 7        transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
> 4
```

w	a	27
	PC	2
t	b	253
	PC	7
f	c	4
	PC	5

```
coroutine w():
> 0    int a = 0
> 1    loop:
> 2        a = a + 9
> 3    print(a)
> 4        if a mod 2 == 0:
> 5            transfer t()
> 6        else:
> 7            transfer f()
```

```
coroutine t():
> 0    int b = 1
> 1    loop:
> 2        b = (b + 1) * 11
> 3    print(b)
> 4        if b mod 2 == 0:
> 5            transfer w()
> 6        else:
> 7            transfer f()
```

```
coroutine f():
> 0    int c = 1
> 1    loop:
> 2        c = c + 1
> 3    print(c)
> 4        if c mod 2 == 0:
> 5            transfer w()
> 6        else:
> 7            transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
> 4
```

w	a	36
	PC	3
t	b	253
	PC	7
f	c	4
	PC	5

```
coroutine w():
> 0    int a = 0
> 1    loop:
> 2        a = a + 9
> 3        print(a)
> 4        if a mod 2 == 0:
> 5            transfer t()
> 6        else:
> 7            transfer f()
```

```
coroutine t():
> 0    int b = 1
> 1    loop:
> 2        b = (b + 1) * 11
> 3        print(b)
> 4        if b mod 2 == 0:
> 5            transfer w()
> 6        else:
> 7            transfer f()
```

```
coroutine f():
> 0    int c = 1
> 1    loop:
> 2        c = c + 1
> 3        print(c)
> 4        if c mod 2 == 0:
> 5            transfer w()
> 6        else:
> 7            transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
> 4
> 36
```

w	a	36
	PC	4
t	b	253
	PC	7
f	c	4
	PC	5


```
coroutine w():
> 0    int a = 0
> 1    loop:
> 2        a = a + 9
> 3        print(a)
> 4        if a mod 2 == 0:
> 5            transfer t()
> 6        else:
> 7            transfer f()
```

```
coroutine t():
> 0    int b = 1
> 1    loop:
> 2        b = (b + 1) * 11
> 3        print(b)
> 4        if b mod 2 == 0:
> 5            transfer w()
> 6        else:
> 7            transfer f()
```

```
coroutine f():
> 0    int c = 1
> 1    loop:
> 2        c = c + 1
> 3        print(c)
> 4        if c mod 2 == 0:
> 5            transfer w()
> 6        else:
> 7            transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
> 4
> 36
```

w	a	36
	PC	5
t	b	253
	PC	7
f	c	4
	PC	5

```
coroutine w():
> 0   int a = 0
> 1   loop:
> 2       a = a + 9
> 3       print(a)
> 4       if a mod 2 == 0:
> 5           transfer t()
> 6       else:
> 7           transfer f()
```

```
coroutine t():
> 0   int b = 1
> 1   loop:
> 2       b = (b + 1) * 11
> 3       print(b)
> 4       if b mod 2 == 0:
> 5           transfer w()
> 6       else:
> 7           transfer f()
```

```
coroutine f():
> 0   int c = 1
> 1   loop:
> 2       c = c + 1
> 3       print(c)
> 4       if c mod 2 == 0:
> 5           transfer w()
> 6       else:
> 7           transfer t()
```

IMPRIME

> 9
> 2
> 18
> 22
> 27
> 3
> 253
> 4
> 36

w	a	36
	PC	5
t	b	253
	PC	2
f	c	4
	PC	5

```
coroutine w():
> 0    int a = 0
> 1    loop:
> 2        a = a + 9
> 3        print(a)
> 4        if a mod 2 == 0:
> 5            transfer t()
> 6        else:
> 7            transfer f()
```

```
coroutine t():
> 0    int b = 1
> 1    loop:
> 2        b = (b + 1) * 11
> 3        print(b)
> 4        if b mod 2 == 0:
> 5            transfer w()
> 6        else:
> 7            transfer f()
```

```
coroutine f():
> 0    int c = 1
> 1    loop:
> 2        c = c + 1
> 3        print(c)
> 4        if c mod 2 == 0:
> 5            transfer w()
> 6        else:
> 7            transfer t()
```

IMPRIME

```
> 9
> 2
> 18
> 22
> 27
> 3
> 253
> 4
> 36
```

w	a	36
	PC	5
t	b	2794
	PC	3
f	c	4
	PC	5

```
coroutine w():
▶ 0     int a = 0
▶ 1     loop:
▶ 2         a = a + 9
▶ 3         print(a)
▶ 4         if a mod 2 == 0:
▶ 5             transfer t()
▶ 6         else:
▶ 7             transfer f()
```

```
coroutine t():
▶ 0     int b = 1
▶ 1     loop:
▶ 2         b = (b + 1) * 11
▶ 3         print(b)
▶ 4         if b mod 2 == 0:
▶ 5             transfer w()
▶ 6         else:
▶ 7             transfer f()
```

```
coroutine f():
▶ 0     int c = 1
▶ 1     loop:
▶ 2         c = c + 1
▶ 3         print(c)
▶ 4         if c mod 2 == 0:
▶ 5             transfer w()
▶ 6         else:
▶ 7             transfer t()
```

IMPRIME

> 9
> 2
> 18
> 22
> 27
> 3
> 253
> 4
> 36
> 2794

w	a	36
	PC	5
t	b	2794
	PC	4
f	c	4
	PC	5

PARTE B

RESULTADOS

Y ASÍ SUCESIVAMENTE

Los primeros 10 valores impresos por el programa son:

```
> 9  
> 2  
> 18  
> 22  
> 27  
> 3  
> 253  
> 4  
> 36  
> 2794
```

**EL PROGRAMA
SEGUIRA
EJECUTÁNDOSE
INDEFINIDAMENTE**