X = 4 , Y = 5, Z = 1

(a) El iterador suspenso:

```
   def suspenso(a, b):
1     if b == []:
2        yield a
      else:
3        yield a + b[0]
4        for x in suspenso(b[0], b[1:]):
5           yield x
                    (10, [4,5,1])
6  for x in suspenso(X + Y + Z, [X, Y, Z]):
7     print x
```

Llamada

X	
Suspenso	iterador
PC	6

Iterador

PC	1
a	10
b	[4,5,1]

X = 4 , Y = 5, Z = 1

(a) El iterador suspenso:

```
   def suspenso(a, b):
1     if b == []:
2        yield a
      else:
3        yield a + b[0]
4        for x in suspenso(b[0], b[1:]):
5           yield x
                                  (10, [4,5,1])
6  for x in suspenso(X + Y + Z, [X, Y, Z]):
7     print x
```

Llamada

X	14
Suspenso	iterador
PC	6 7

Iterador

PC	~~1~~ 3
a	10
b	[4,5,1]

Imprime

14

X = 4 , Y = 5, Z = 1

(a) El iterador suspenso:

```
   def suspenso(a, b):
1     if b == []:
2        yield a
      else:
3        yield a + b[0]
4        for x in suspenso(b[0], b[1:]):
5           yield x
                          (10, [4,5,1])
6  for x in suspenso(X + Y + Z, [X, Y, Z]):
7     print x
```

Llamada

X	14
Suspenso	iterador
PC	~~6~~ ~~7~~ 6

Iterador

PC	~~1~~ ~~3~~ 4
a	10
b	[4,5,1]
PC	1
a	4
b	[5,1]

Imprime

14

X = 4 , Y = 5, Z = 1

(a) El iterador suspenso:

```
def suspenso(a, b):
1   if b == []:
2       yield a
    else:
3       yield a + b[0]
4       for x in suspenso(b[0], b[1:]):
5           yield x

                    (10, [4,5,1])
6 for x in suspenso(X + Y + Z, [X, Y, Z]):
7     print x
```

Llamada

X	~~14~~ 9
Suspenso	iterador
PC	~~6~~ 7 ~~6~~ 7

Imprime

14

9

Iterador

PC	~~1~~ ~~3~~ ~~4~~ 5
a	10
b	[4,5,1]
X	9
PC	~~1~~ 3
a	4
b	[5,1]
X	

X = 4 , Y = 5, Z = 1

(a) El iterador suspenso:

```
   def suspenso(a, b):
1     if b == []:
2        yield a
      else:
3        yield a + b[0]
4        for x in suspenso(b[0], b[1:]):
5           yield x
                    (10, [4,5,1])
6  for x in suspenso(X + Y + Z, [X, Y, Z]):
7     print x
```

Llamada

X	~~11~~ 9
Suspenso	iterador
PC	~~6~~ ~~7~~ ~~6~~ ~~7~~ 6

Imprime

14

9

Iterador

PC	~~1~~ ~~3~~ ~~4~~ ~~5~~ 4
a	10
b	[4,5,1]
X	9
PC	~~1~~ ~~3~~ 4
a	4
b	[5,1]
X	
PC	1
a	5
b	[1]

X = 4 , Y = 5, Z = 1

(a) El iterador suspenso:

```
   def suspenso(a, b):
1     if b == []:
2        yield a
      else:
3        yield a + b[0]
4        for x in suspenso(b[0], b[1:]):
5           yield x
                          (10, [4,5,1])
6  for x in suspenso(X + Y + Z, [X, Y, Z]):
7     print x
```

Llamada

X	~~14~~ ~~9~~ 6
Suspenso	iterador
PC	~~6~~ ~~7~~ ~~6~~ ~~7~~ ~~6~~ 7

Imprime

14

9

6

Iterador

PC	~~1~~ ~~3~~ ~~4~~ ~~5~~ 4 5
a	10
b	[4,5,1]
X	~~9~~ 6

PC	1 ~~3~~ ~~4~~ 5
a	4
b	[5,1]
X	6

PC	~~1~~ 3
a	5
b	[1]

X = 4 , Y = 5, Z = 1

(a) El iterador suspenso:

```
   def suspenso(a, b):
1     if b == []:
2        yield a
      else:
3        yield a + b[0]
4        for x in suspenso(b[0], b[1:]):
5           yield x
                              (10, [4,5,1])
6  for x in suspenso(X + Y + Z, [X, Y, Z]):
7     print x
```

Llamada

X	~~11~~ ~~9~~ 6
Suspenso	iterador
PC	~~6~~ ~~7~~ ~~6~~ ~~7~~ ~~6~~ ~~7~~6

Imprime

14

9

6

Iterador

PC	~~1~~ ~~3~~ ~~4~~ ~~5~~ ~~4~~ ~~5~~ 4
a	10
b	[4,5,1]
X	~~9~~ 6
PC	~~1~~ ~~3~~ ~~4~~ ~~5~~ 4
a	4
b	[5,1]
X	6
PC	~~1~~ ~~3~~ 4
a	5
b	[1]
X	
PC	1
a	1
b	[ ]

X = 4 , Y = 5, Z = 1

(a) El iterador suspenso:

```
   def suspenso(a, b):
1     if b == []:
2        yield a
      else:
3        yield a + b[0]
4        for x in suspenso(b[0], b[1:]):
5           yield x
                          (10, [4,5,1])
6  for x in suspenso(X + Y + Z, [X, Y, Z]):
7     print x
```

Llamada

X	~~11~~ ~~9~~ ~~6~~ 1
Suspenso	iterador
PC	~~6~~ 7 ~~6~~ 7 ~~6~~ 7 ~~6~~ 7

Imprime

14

9

6

1

Iterador

PC	~~1~~ ~~3~~ ~~4~~ ~~5~~ ~~4~~ ~~5~~ ~~4~~ 5
a	10
b	[4,5,1]
X	~~9~~ ~~6~~ 1
PC	~~1~~ ~~3~~ ~~4~~ ~~5~~ ~~4~~ 5
a	4
b	[5,1]
X	~~6~~ 1
PC	~~1~~ ~~3~~ ~~4~~ 5
a	5
b	[1]
X	1
PC	~~1~~ 2
a	1
b	[ ]

X = 4 , Y = 5, Z = 1

(a) El iterador suspenso:

```
   def suspenso(a, b):
1     if b == []:
2        yield a
      else:
3        yield a + b[0]
4        for x in suspenso(b[0], b[1:]):
5           yield x
                          (10, [4,5,1])
6  for x in suspenso(X + Y + Z, [X, Y, Z]):
7     print x
```

Llamada

X	~~14~~ ~~9~~ ~~6~~ ~~1~~
Suspenso	iterador
PC	~~6~~ ~~7~~ ~~6~~ ~~7~~ ~~6~~ ~~7~~ ~~6~~ ~~7~~ ~~6~~

Imprime

14

9

6

1

Final del Programa

Iterador

PC	~~1~~ ~~3~~ ~~4~~ ~~5~~ ~~4~~ ~~5~~ ~~4~~ ~~5~~ ~~4~~
a	10 Fin del Iterador
b	[4,5,1]
X	~~9~~ ~~6~~ ~~1~~ -
PC	~~1~~ ~~3~~ ~~4~~ ~~5~~ ~~4~~ ~~5~~ ~~4~~
a	4 Fin del Iterador
b	[5,1]
X	~~6~~ ~~1~~ -
PC	~~1~~ ~~3~~ ~~4~~ ~~5~~ ~~4~~ Fin del Iterador
a	5
b	[1]
X	~~1~~ -
PC	~~1~~ ~~2~~ Fin del Iterador
a	1
b	[ ]