Iterador Suspenso

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6      print(x)
```

X = 2 Y = 6 Z = 6

Imprime

Global	
suspenso	proc
x	–
pc	5

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Iterador Suspenso

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X = 2 Y = 6 Z = 6

Imprime

Global	
suspenso	proc
x	–
pc	5

2	b	[2, 6, 6]
1	a	14
0	pc	0

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Global	
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x	–
pc	5

2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ 2

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```

X = 2 Y = 6 Z = 6

Imprime

16

Global	
suspenso	proc
x	~~-~~ 16
pc	~~5~~ 6

2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ 2

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Iterador Suspenso

```
0
1
2
3
4
5
6
```

```
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```

X = 2 Y = 6 Z = 6

Imprime

16

Global	
suspenso	proc
x	~~-~~ 16
pc	~~5~~ ~~6~~ 5

2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ 2

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```

X = 2 Y = 6 Z = 6

Imprime

16

Global	
suspenso	proc
x	~~–~~ 16
pc	~~5~~ ~~6~~ 5

3	x	–
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ 3

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Imprime

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Global	
suspenso	proc
x	~~–~~ 16
pc	~~5~~ ~~6~~ 5

6	b	[6, 6]
5	a	2
4	pc	0

3	x	–
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ 3

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Iterador Suspenso

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16

Global	
suspenso	proc
x	~~–~~ 16
pc	~~5~~ ~~6~~ 5

6	b	[6, 6]
5	a	2
4	pc	~~0~~ 2

3	x	–
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ 3

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Iterador Suspenso

```
0
1
2
3
4
5
6
```

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X = 2 Y = 6 Z = 6

Imprime

16

Global	
suspenso	proc
x	~~-~~ 16
pc	~~5~~ ~~6~~ 5

6	b	[6, 6]
5	a	2
4	pc	~~0~~ 2

3	x	~~-~~ 8
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ ~~3~~ 4

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Imprime

16 8

Global	
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x	~~-~~ ~~16~~ 8
pc	~~5~~ ~~6~~ ~~5~~ 6

6	b	[6, 6]
5	a	2
4	pc	~~0~~ 2

3	x	~~-~~ 8
2	b	[2, 6, 6]
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suspenso	proc
x	~~-~~ ~~16~~ 8
pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

6	b	[6, 6]
5	a	2
4	pc	~~0~~ 2

3	x	~~-~~ 8
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ ~~3~~ 4

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Global	
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x	~~-~~ ~~16~~ 8
pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

6	b	[6, 6]
5	a	2
4	pc	~~0~~ 2

3	x	~~-~~ 8
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ 3

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Iterador Suspenso

```
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2
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Imprime

16 8

Global	
suspenso	proc
x	~~–~~ ~~16~~ 8
pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

7	x	–
6	b	[6, 6]
5	a	2
4	pc	~~0~~ ~~2~~ 3

3	x	~~–~~ 8
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ 3

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```

X = 2 Y = 6 Z = 6

Imprime

16 8

Global	
suspenso	proc
x	~~–~~ ~~16~~ 8
pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

10	b	[6]
9	a	6
8	pc	0

7	x	–
6	b	[6, 6]
5	a	2
4	pc	~~0~~ ~~2~~ 3

3	x	~~–~~ 8
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ 3

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pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

10	b	[6]
9	a	6
8	pc	~~0~~ 2

7	x	–
6	b	[6, 6]
5	a	2
4	pc	~~0~~ ~~2~~ 3

3	x	~~–~~ 8
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ 3

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Iterador Suspenso

```
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X = 2 Y = 6 Z = 6

Imprime

16 8

Global	
suspenso	proc
x	~~-1~~ ~~6~~ 8
pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

10	b	[6]
9	a	6
8	pc	~~0~~ 2

7	x	~~-~~ 12
6	b	[6, 6]
5	a	2
4	pc	~~0~~ ~~2~~ ~~3~~ 4

3	x	~~-~~ 8
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ 3

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x	~~-1~~ ~~6~~ 8
pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

10	b	[6]
9	a	6
8	pc	~~0~~ 2

7	x	~~-~~ 12
6	b	[6, 6]
5	a	2
4	pc	~~0~~ ~~2~~ ~~3~~ 4

3	x	~~-~~ ~~8~~ 12
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ ~~3~~ 4

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Iterador Suspenso

```
0
1
 
2
3
4
 
5
6
```

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```

X = 2 Y = 6 Z = 6

Imprime

16 8 12

Global	
suspenso	proc
x	~~-1~~ 6 ~~8~~ 12
pc	~~5 6 5 6 5~~ 6

10	b	[6]
9	a	6
8	pc	~~0~~ 2

7	x	~~-~~ 12
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3~~ 4

3	x	~~-~~ 8 12
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Imprime

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Global	
suspenso	proc
x	~~-1~~ 6 ~~8~~ 12
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Imprime

16 8 12

Global	
suspenso	proc
x	~~-1~~ 0 ~~3~~ 12
pc	~~5 6 5 6 5 6~~ 5

10	b	[6]
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7	x	~~-~~ 12
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3~~ 4

3	x	~~-~~ 8 12
2	b	[2, 6, 6]
1	a	14
0	pc	~~0 2 3 4 3 4~~ 3

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Iterador Suspenso

```
0
1
 
2
3
4
 
5
6
```

```
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Imprime

16 8 12

Global	
suspenso	proc
x	~~-1~~ 0 ~~8~~ 12
pc	~~5 6 5 6 5 6~~ 5

10	b	[6]
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7	x	~~-~~ 12
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3 4~~ 3

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```

X = 2 Y = 6 Z = 6

Imprime

16 8 12

Global	
suspenso	proc
x	~~–~~ 16 8 12
pc	~~5 6 5 6 5 6~~ 5

11	x	–
10	b	[6]
9	a	6
8	pc	~~0 2~~ 3

7	x	~~–~~ 12
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3 4~~ 3

3	x	~~–~~ 8 12
2	b	[2, 6, 6]
1	a	14
0	pc	~~0 2 3 4 3 4~~ 3

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```

X = 2 Y = 6 Z = 6

Imprime

16 8 12

Global	
suspenso	proc
x	~~–~~ 16 ~~8~~ 12
pc	~~5 6 5 6 5 6~~ 5

14	b	[]
13	a	6
12	pc	0

11	x	–
10	b	[6]
9	a	6
8	pc	~~0 2~~ 3

7	x	~~–~~ 12
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3 4~~ 3

3	x	~~–~~ 8 12
2	b	[2, 6, 6]
1	a	14
0	pc	~~0 2 3 4 3 4~~ 3

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```

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Imprime

16 8 12

Global	
suspenso	proc
x	~~–~~ ~~16~~ ~~8~~ 12
pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

14	b	[ ]
13	a	6
12	pc	~~0~~ 1

11	x	–
10	b	[6]
9	a	6
8	pc	~~0~~ ~~2~~ 3

7	x	~~–~~ 12
6	b	[6, 6]
5	a	2
4	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ 3

3	x	~~–~~ ~~8~~ 12
2	b	[2, 6, 6]
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X = 2 Y = 6 Z = 6

Imprime

16 8 12

Global	
suspenso	proc
x	~~- 16 8~~ 12
pc	~~5 6 5 6 5 6~~ 5

~~14~~	~~b~~	~~[ ]~~
~~13~~	~~a~~	~~6~~
~~12~~	~~pc~~	~~0~~ 1

11	x	~~-~~ 6
10	b	[6]
9	a	6
8	pc	~~0 2 3~~ 4

7	x	~~-~~ 12
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3 4~~ 3

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Imprime

16 8 12

Global	
suspenso	proc
x	~~-~~ 16 8 12
pc	~~5 6 5 6 5 6~~ 5

~~14~~	~~b~~	~~[ ]~~
~~13~~	~~a~~	~~6~~
~~12~~	~~pc~~	~~0~~ 1

11	x	~~-~~ 6
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7	x	~~-~~ 12 6
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4	pc	~~0 2 3 4 3~~ 4

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```

X = 2 Y = 6 Z = 6

Imprime

16 8 12

Global	
suspenso	proc
x	~~-1~~ 6 ~~8~~ 12
pc	~~5 6 5 6 5 6~~ 5

~~14~~	~~b~~	~~[ ]~~
~~13~~	~~a~~	~~6~~
~~12~~	~~pc~~	~~0~~ 1

11	x	~~-~~ 6
10	b	[6]
9	a	6
8	pc	~~0 2 3~~ 4

7	x	~~-~~ ~~12~~ 6
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3 4 3~~ 4

3	x	~~-8~~ ~~12~~ 6
2	b	[2, 6, 6]
1	a	14
0	pc	~~0 2 3 4 3 4 3~~ 4

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6      print(x)
```

X = 2 Y = 6 Z = 6

Imprime

16 8 12 6

Global	
suspenso	proc
x	~~- 16 8 12~~ 6
pc	~~5 6 5 6 5 6 5~~ 6

~~14~~	~~b~~	~~[ ]~~
~~13~~	~~a~~	~~6~~
~~12~~	~~pc~~	~~0 1~~

11	x	~~-~~ 6
10	b	[6]
9	a	6
8	pc	~~0 2 3~~ 4

7	x	~~-~~ ~~12~~ 6
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3 4 3~~ 4

3	x	~~-~~ ~~8~~ ~~12~~ 6
2	b	[2, 6, 6]
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0	pc	~~0 2 3 4 3 4 3~~ 4

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```

X = 2 Y = 6 Z = 6

Imprime

16 8 12 6

Global	
suspenso	proc
x	~~- 16 8 12~~ 6
pc	~~5 6 5 6 5 6 5 6~~ 5

~~14~~	~~b~~	~~[ ]~~
~~13~~	~~a~~	~~6~~
~~12~~	~~pc~~	~~0 1~~

11	x	~~-~~ 6
10	b	[6]
9	a	6
8	pc	~~0 2 3~~ 4

7	x	~~-~~ ~~12~~ 6
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3 4 3~~ 4

3	x	~~-~~ ~~8~~ ~~12~~ 6
2	b	[2, 6, 6]
1	a	14
0	pc	~~0 2 3 4 3 4 3~~ 4

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Iterador Suspenso

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

X = 2 Y = 6 Z = 6

Imprime

16 8 12 6

Global	
suspenso	proc
x	~~-1~~ ~~8~~ ~~12~~ 6
pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ ~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

~~14~~	~~b~~	~~[]~~
~~13~~	~~a~~	~~6~~
~~12~~	~~pc~~	~~0~~ 1

11	x	~~-~~ 6
10	b	[6]
9	a	6
8	pc	~~0~~ ~~2~~ ~~3~~ 4

7	x	~~-~~ ~~12~~ 6
6	b	[6, 6]
5	a	2
4	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ ~~3~~ 4

3	x	~~-~~ ~~8~~ ~~12~~ 6
2	b	[2, 6, 6]
1	a	14
0	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ ~~3~~ ~~4~~ ~~3~~ ~~4~~ 3

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Imprime

16 8 12 6

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suspenso	proc
x	~~16~~ ~~8~~ ~~12~~ 6
pc	~~5~~ ~~6~~ ~~5~~ ~~6~~ ~~5~~ ~~6~~ ~~5~~ ~~6~~ 5

~~14~~	~~b~~	~~[]~~
~~13~~	~~a~~	~~6~~
~~12~~	~~pc~~	~~0~~ 1

11	x	~~-~~ 6
10	b	[6]
9	a	6
8	pc	~~0~~ ~~2~~ ~~3~~ 4

7	x	~~-~~ ~~12~~ 6
6	b	[6, 6]
5	a	2
4	pc	~~0~~ ~~2~~ ~~3~~ ~~4~~ ~~3~~ ~~4~~ 3

3	x	~~-~~ ~~8~~ ~~12~~ 6
2	b	[2, 6, 6]
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Imprime

16 8 12 6

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suspenso	proc
x	~~16~~ 8 ~~12~~ 6
pc	~~5 6 5 6 5 6 5 6~~ 5

14	b	[]
13	a	6
12	pc	~~0~~ 1

11	x	~~=~~ 6
10	b	[6]
9	a	6
8	pc	~~0 2 3 4~~ 3

7	x	~~=~~ ~~12~~ 6
6	b	[6, 6]
5	a	2
4	pc	~~0 2 3 4 3 4~~ 3

3	x	~~=~~ ~~8~~ ~~12~~ 6
2	b	[2, 6, 6]
1	a	14
0	pc	~~0 2 3 4 3 4 3 4~~ 3

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Iterador Suspenso

```
0
1
2
3
4
5
6
```

```
def suspenso(a, b):
    if b == []:
        yield a
    else:
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        for x in suspenso(b[0], b[1:]):
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16 8 12 6

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Imprime

16 8 12 6

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suspenso	proc
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pc	~~5 6 5 6 5 6 5 6~~ 5

~~14~~	~~b~~	~~[ ]~~
~~13~~	~~a~~	~~6~~
~~12~~	~~pc~~	~~0~~ 1

~~11~~	~~x~~	~~- 6~~
~~10~~	~~b~~	~~[6]~~
~~9~~	~~a~~	~~6~~
~~8~~	~~pc~~	~~0 2 3 4~~ 3

~~7~~	~~x~~	~~- 12~~ 6
~~6~~	~~b~~	~~[6, 6]~~
~~5~~	~~a~~	~~2~~
~~4~~	~~pc~~	~~0 2 3 4 3 4~~ 3

3	x	~~- 8 12~~ 6
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16 8 12 6

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suspenso	proc
x	~~- 16 8 12~~ 6
pc	~~5 6 5 6 5 6 5 6~~ 5

~~14~~	~~b~~	~~[ ]~~
~~13~~	~~a~~	~~6~~
~~12~~	~~pc~~	~~0~~ 1

~~11~~	~~x~~	~~- 6~~
~~10~~	~~b~~	~~[6]~~
~~9~~	~~a~~	~~6~~
~~8~~	~~pc~~	~~0 2 3 4~~ 3

~~7~~	~~x~~	~~- 12~~ 6
~~6~~	~~b~~	~~[6, 6]~~
~~5~~	~~a~~	~~2~~
~~4~~	~~pc~~	~~0 2 3 4 3 4~~ 3

~~3~~	~~x~~	~~- 8 12~~ 6
~~2~~	~~b~~	~~[2, 6, 6]~~
~~1~~	~~a~~	~~14~~
~~0~~	~~pc~~	~~0 2 3 4 3 4 3 4~~ 3

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