# Pregunta 3b

•••

El Iterador Contraataca

```
Código en Python
```

```
def misterio(ls):
0     if ls:
1         for m in misterio(ls[1:]):
2         for i in ins(ls[0], m):
3           yield i
         else:
4         yield []
5         for m in misterio([1,2,3]):
6         print m
```

Global		
misterio	proc	
m	-	
рс	5	

```
Código en Python
```

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2            for i in ins(ls[0], m):
3                 yield i
                 else:
4                yield []
5            for m in misterio([1,2,3]):
6                 print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	ls	[1,2,3]
motorio	рс	0

```
Código en Python
```

```
def misterio(ls):
0     if ls:
1         for m in misterio(ls[1:]):
2         for i in ins(ls[0], m):
3            yield i
         else:
4         yield []
5         for m in misterio([1,2,3]):
6         print m
```

Global		
misterio	proc	
m	-	
рс	5	

	m	-
misterio	Is	[1,2,3]
	рс	Ø 1

```
Código en Python
```

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2            for i in ins(ls[0], m):
3                 yield i
                 else:
4                yield []
5            for m in misterio([1,2,3]):
6                 print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	Is	[2,3]
	рс	0
misterio	m	-
	Is	[1,2,3]
	рс	Ø 1

```
Código en Python
```

```
def misterio(ls):
0     if ls:
1         for m in misterio(ls[1:]):
2         for i in ins(ls[0], m):
3            yield i
            else:
4            yield []
5         for m in misterio([1,2,3]):
6            print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	m	-
	Is	[2,3]
	рс	Ø 1
misterio	m	-
	Is	[1,2,3]
	рс	Ø 1

```
Código en Python
```

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2            for i in ins(ls[0], m):
3                 yield i
                 else:
4                 yield []
5            for m in misterio([1,2,3]):
6                 print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	Is	[3]
	рс	0
misterio	m	-
	Is	[2,3]
	рс	.Ø 1
misterio	m	-
	Is	[1,2,3]
	рс	Ø 1

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2            for i in ins(ls[0], m):
3                 yield i
                 else:
4                 yield []
5            for m in misterio([1,2,3]):
6                 print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	m	-
	Is	[3]
	рс	9⁄1
misterio	m	-
	Is	[2,3]
	рс	Ø 1
misterio	m	-
	Is	[1,2,3]
	рс	Ø 1

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2          for i in ins(ls[0], m):
3             yield i
             else:
4             yield []
5        for m in misterio([1,2,3]):
6             print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	Is	0
	рс	0
	m	-
misterio	Is	[3]
	рс	<u>0</u> ′1
	m	-
misterio	Is	[2,3]
	рс	Ø 1
	m	-
misterio	Is	[1,2,3]
	рс	Ø 1

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2          for i in ins(ls[0], m):
3             yield i
             else:
4             yield []
5        for m in misterio([1,2,3]):
6             print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio   Is   []	
pc 0/4	
m -	
misterio Is [3]	
pc 0/1	
m -	
misterio Is [2,3]	
pc Ø1	
m -	
misterio Is [1,2,3]	
pc Ø 1	

```
def misterio(ls):
0     if ls:
1         for m in misterio(ls[1:]):
2         for i in ins(ls[0], m):
3            yield i
            else:
4            yield []
5         for m in misterio([1,2,3]):
6            print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	Is	0
	рс	0⁄4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	0/1/2
	m	-
misterio	Is	[2,3]
	рс	.Ø1
	m	-
misterio	Is	[1,2,3]
	рс	Ø 1

```
def misterio(ls):
0    if ls:
1       for m in misterio(ls[1:]):
2         for i in ins(ls[0], m):
3            yield i
         else:
4         yield []
5       for m in misterio([1,2,3]):
6         print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	Is	0
	рс	<i>9</i> 4
misterio	i	[3]
	m	
	Is	[3]
	рс	0/1/2/3
	m	-
misterio	Is	[2,3]
	рс	Ø 1
misterio	m	-
	Is	[1,2,3]
	рс	Ø 1

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2          for i in ins(ls[0], m):
3             yield i
             else:
4             yield []
5        for m in misterio([1,2,3]):
6             print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	Is	0
	рс	Ø 4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	Ø X 2
	m	-
misterio	Is	[1,2,3]
	рс	Ø 1

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2            for i in ins(ls[0], m):
3                 yield i
                 else:
4                 yield []
5            for m in misterio([1,2,3]):
6                 print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	Is	0
	рс	Ø 4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	ØX 2 3
	m	-
misterio	Is	[1,2,3]
	рс	Ø 1

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2          for i in ins(ls[0], m):
3             yield i
             else:
4             yield []
5        for m in misterio([1,2,3]):
6             print m
```

Global		
misterio	proc	
m	-	
рс	5	

		<del></del>
misterio	ls	
	рс	<i>9</i> 4
	i	[3]
misterio	m	[]
	Is	[3]
	рс	Q123
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	Ø1/23
misterio	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
	m	[2,3]
	Is	[1,2,3]
	рс	Ø X 2

```
def misterio(ls):
0    if ls:
1        for m in misterio(ls[1:]):
2          for i in ins(ls[0], m):
3             yield i
             else:
4             yield []
5        for m in misterio([1,2,3]):
6             print m
```

Global		
misterio	proc	
m	-	
рс	5	

misterio	Is	0
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	0
	Is	[3]
	рс	9123
	i	[2,3] [3,2]
misterio	m	[3]
	Is	[2,3]
	рс	Ø1/23
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	Ø X 2 3

Imprime

```
def misterio(ls):
0    if ls:
1       for m in misterio(ls[1:]):
2         for i in ins(ls[0], m):
3            yield i
         else:
4         yield []
5       for m in misterio([1,2,3]):
6         print m
```

Global		
misterio	proc	
m	[1,2,3]	
рс	56	

misterio	Is	
	рс	Ø 4
	i	[3]
misterio	m	
IIIISterio	Is	[3]
	рс	0123
	i	[2,3] [3,2]
misterio	m	[3]
IIIIsterio	Is	[2,3]
	рс	ØX23
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	Ø X 2 3

print m

Imprime

```
def misterio(ls):
0    if ls:
1       for m in misterio(ls[1:]):
2         for i in ins(ls[0], m):
3            yield i
         else:
4         yield []
5    for m in misterio([1,2,3]):
```

Global		
misterio	proc	
m	[1,2,3]	
рс	565	

misterio	Is	[]
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	0
	Is	[3]
	рс	9123
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	Ø1/23
misterio	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
	m	[2,3]
	Is	[1,2,3]
	рс	Ø X Z 3

print m

Imprime

```
def misterio(ls):
0     if ls:
1     for m in misterio(ls[1:]):
2         for i in ins(ls[0], m):
3            yield i
              else:
4         yield []
5     for m in misterio([1,2,3]):
```

Global		
misterio	proc	
m	[1,2,3]	
рс	5.6.5	

misterio	Is	[]
	рс	Ø 4
	i	[3]
misterio	m	0
IIIIStorio	Is	[3]
	рс	0123
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	ØX 2 3
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	Ø X Z 3 Z

Imprime

```
def misterio(ls):
0    if ls:
1       for m in misterio(ls[1:]):
2         for i in ins(ls[0], m):
3            yield i
         else:
4         yield []
5       for m in misterio([1,2,3]):
6         print m
```

Global		
misterio	proc	
m	[1,2,3]	
рс	5.6.5	

misterio	Is	
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	ØX 2 3
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	Ø X Z 3 Z 3

def misterio(ls):
if ls:

1 for m in misterio(ls[1:]):

for i in ins(ls[0], m):

yield i

else: yield []

4

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,1,3]	
рс	5656	

#### Imprime

misterio	ls	
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	
Illisterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
Illisterio	Is	[2,3]
	рс	Ø123
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	Ø X Z 3 Z 3

def misterio(ls):
if ls:

for m in misterio(ls[1:]):

for i in ins(ls[0], m):

yield i

else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,1,3]	
рс	56565	

#### Imprime

misterio	Is	[]
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	
IIIISterio	Is	[3]
	рс	0/1/2/3
misterio	i	[2,3] [3,2]
	m	[3]
	Is	[2,3]
	рс	Ø123
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	012323

def misterio(ls):

if ls:

for m in misterio(ls[1:]):

2 for i in ins(ls[0], m):

yield i else:

yield []

5 for m in misterio([1,2,3]):

6 print m

4

Global		
misterio	proc	
m	[2,1,3]	
рс	56565	

## Imprime

misterio	ls	
	рс	Ø 4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	9123
	i	[2,3] [3,2]
misterio	m	[3]
Illisterio	Is	[2,3]
	рс	ØX23
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	Ø X Z 3 Z 3 Z

def misterio(ls):
 if ls:

for m in misterio(ls[1:]):

for i in ins(ls[0], m):

yield i else:

yield []

5 for m in misterio([1,2,3]):

6 print m

4

Global		
misterio	proc	
m	[2,1,3]	
рс	56565	

#### Imprime

misterio	Is	
	рс	<i>9</i> 4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	0/1/2/3
misterio	i	[2,3] [3,2]
	m	[3]
	Is	[2,3]
	рс	Ø1/23
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	Ø <i>X</i> 2 3 2 3 2 3

def misterio(ls):

if ls:

for m in misterio(ls[1:]):

for i in ins(ls[0], m):

yield i

else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,3,1]	
рс	565656	

## Imprime

misterio	ls	
	рс	Ø 4
	i	[3]
misterio	m	0
Illisterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	ØX23
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	ØX232323

def misterio(ls):
 if ls:
 for m in misterio(ls[1:]):
 for i in ins(ls[0], m):

yield i

else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,3,1]	
рс	5656565	

## Imprime

misterio	ls	0
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	0
	Is	[3]
	рс	0123
	i	[2,3] [3,2]
misterio	m	[3]
Illisterio	Is	[2,3]
	рс	ØX23
	i	[1, 2, 3] [2, 1, 3] [2, 3, 1]
misterio	m	[2,3]
	Is	[1,2,3]
	рс	Ø X Z 3 Z 3 Z 3

def misterio(ls):
 if ls:
 for m in misterio(ls[1:]):
 for i in ins(ls[0], m):

yield i

else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,3,1]	
рс	5656565	

#### Imprime

misterio	ls	
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	
Illisterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
Illisterio	Is	[2,3]
	рс	Ø123
	i	-
misterio	m	[2,3]
IIIISterio	Is	[1,2,3]
	рс	012323232

def misterio(ls):
 if ls:
 for m in misterio(ls[1:]):
 for i in ins(ls[0], m):
 yield i

else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,3,1]	
рс	5656565	

#### Imprime

misterio	ls	
	рс	Ø 4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
Illisterio	Is	[2,3]
	рс	ØX 2 3
	i	-
misterio	m	-
	Is	[1,2,3]
	рс	ØX23232321

def misterio(ls):
 if ls:
 for m in misterio(ls[1:]):
 for i in ins(ls[0], m):

yield i

else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,3,1]	
рс	5656565	

## Imprime

misterio	Is	
	рс	<i>9</i> 4
	i	[3]
misterio	m	0
Illisterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
Illisterio	Is	[2,3]
	рс	01232
	i	-
misterio	m	-
IIIISterio	Is	[1,2,3]
	рс	Ø <i>X</i> 2 3 2 3 2 3 2 1

def misterio(ls):
 if ls:
 for m in misterio(ls[1:]):
 for i in ins(ls[0], m):
 yield i

else:
4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,3,1]	
рс	5656565	

## Imprime

misterio	Is	
	рс	<i>9</i> 4
	i	[3]
misterio	m	0
Illisterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
Illisterio	Is	[2,3]
	рс	012323
	i	-
misterio	m	-
IIIISterio	Is	[1,2,3]
	рс	Ø <i>X</i> 2 3 2 3 2 3 2 1

def misterio(ls):
 if ls:
 for m in misterio(ls[1:]):

2 for i in ins(ls[0], m):

yield i else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,3,1]	
рс	5656565	

#### Imprime

misterio	Is	
IIIISterio	рс	<i>Ø</i> 4
	i	[3]
misterio	m	
	Is	[3]
	рс	0/1/2/3
misterio	i	[2,3] [3,2]
	m	[3]
Illisterio	Is	[2,3]
	рс	012323
	i	[1,3,2][3,1,2][3,2,1]
misterio	m	[3,2]
	Is	[1,2,3]
	рс	012323212

def misterio(ls):
 if ls:
 for m in misterio(ls[1:]):
 for i in ins(ls[0], m):

yield i

else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[2,3,1]	
рс	5656565	

## Imprime

misterio	Is	0
	рс	Ø 4
misterio	i	[3]
	m	
	Is	[3]
	рс	0/1/2/3
misterio	i	[2,3] [3,2]
	m	[3]
	Is	[2,3]
	рс	ØX2323
misterio	i	[1,3,2][3,1,2][3,2,1]
	m	[3,2]
	Is	[1,2,3]
	рс	012323232123

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[1,3,2]	
рс	56565656	

#### Imprime

misterio	ls	
	рс	Ø 4
misterio	i	[3]
	m	0
	Is	[3]
	рс	9123
misterio	i	[2,3] [3,2]
	m	[3]
	Is	[2,3]
	рс	ØX2323
misterio	i	[1,3,2][3,1,2][3,2,1]
	m	[3,2]
	Is	[1,2,3]
	рс	012323232123

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:

- 4 yield []
- for m in misterio([1,2,3]):print m

Global		
misterio	proc	
m	[1,3,2]	
рс	5	

#### Imprime

misterio	Is	
	рс	<i>9</i> 4
misterio	i	[3]
	m	0
	Is	[3]
	рс	9123
misterio	i	[2,3] [3,2]
	m	[3]
	Is	[2,3]
	рс	012323
misterio	i	[1,3,2][3,1,2][3,2,1]
	m	[3,2]
	Is	[1,2,3]
	рс	012323232123

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:

- 4 yield []
- 5 for m in misterio([1,2,3]):
- 6 print m

Global		
misterio	proc	
m	[1,3,2]	
рс	5	

## Imprime

misterio	Is	
	рс	<i>Ø</i> 4
misterio	i	[3]
	m	
	Is	[3]
	рс	9123
	i	[2,3] [3,2]
misterio	m	[3]
	Is	[2,3]
	рс	012323
misterio	i	[1,3,2][3,1,2][3,2,1]
	m	[3,2]
	Is	[1,2,3]
	рс	2

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:

4 yield []

5 for m in misterio([1,2,3]):

6 print m

Global		
misterio	proc	
m	[1,3,2]	
рс	5	

#### Imprime

misterio	Is	[ []
	рс	<i>9</i> 4
misterio	i	[3]
	m	0
	Is	[3]
	рс	0/1/2/3
misterio	i	[2,3] [3,2]
	m	[3]
	Is	[2,3]
	рс	012323
misterio	i	[1,3,2][3,1,2][3,2,1]
	m	[3,2]
	Is	[1,2,3]
	рс	2 3

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

print m

Global		
misterio	proc	
m	[3,1,2]	
рс	5 6	

### Imprime

[1,	2,	3	]
[2	,1,	3	]
[2	,3	,1	]
[1,	3,	2	]
[3,	,1,	2	1

misterio	Is	0
	рс	Ø 4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	012323
	i	[1,3,2][3,1,2][3,2,1]
misterio	m	[3,2]
IIIISterio	Is	[1,2,3]
	рс	23

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

- 5 for m in misterio([1,2,3]):
- 6 print m

Global		
misterio	proc	
m	[3,1,2]	
рс	5	

### Imprime

misterio	Is	
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	
IIIISterio	Is	[3]
	рс	9123
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	012323
	i	[1,3,2][3,1,2][3,2,1]
misterio	m	[3,2]
	Is	[1,2,3]
	рс	23

def misterio(ls): if ls: for m in misterio(ls[1:]): for i in ins(ls[0], m): yield i else: yield []

for m in misterio([1,2,3]):

6 print m

4

Global		
misterio	proc	
m	[3,1,2]	
рс	5	

### Imprime

misterio	Is	
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	
IIIISterio	Is	[3]
	рс	9123
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	012323
	i	[1,3,2][3,1,2][3,2,1]
misterio	m	[3,2]
	Is	[1,2,3]
	рс	232

6

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

print m

Global
misterio proc
m [3,1,2]
pc 5

### Imprime

misterio	Is	0
	рс	Ø 4
	i	[3]
misterio	m	0
	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	ØX2323
	i	[1,3,2][3,1,2][3,2,1]
misterio	m	[3,2]
	Is	[1,2,3]
	рс	3

6

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

print m

Global		
misterio	proc	
m	[3,2,1]	
рс	6	

### Imprime

misterio	Is	
	рс	<i>9</i> 4
	i	[3]
misterio	m	0
IIIIsterio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	012323
	i	[1,3,2][3,1,2][3,2,1]
misterio	m	[3,2]
	Is	[1,2,3]
	рс	3

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

- 5 for m in misterio([1,2,3]):
- 6 print m

Global		
misterio	proc	
m	[3,2,1]	
рс	5	

### Imprime

misterio	Is	
	рс	Ø 4
	i	[3]
misterio	m	0
IIIIStorio	Is	[3]
	рс	0/1/2/3
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	ØX2323
	i	[1,3,2][3,1,2][3,2,1]
misterio	m	[3,2]
Illisterio	Is	[1,2,3]
	рс	3

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

- 5 for m in misterio([1,2,3]):
- 6 print m

Global		
misterio	proc	
m	[3,2,1]	
рс	5	

### Imprime

[1,2,3]
[2,1,3]
[2,3,1]
[1,3,2]
[3,1,2]
[3,2,1]

misterio	Is	0
	рс	Ø 4
	i	[3]
misterio	m	
	Is	[3]
	рс	9123
	i	[2,3] [3,2]
misterio	m	[3]
IIIISterio	Is	[2,3]
	рс	012323
	i	-
misterio	m	[3,2]
	Is	[1,2,3]
	рс	32

6

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

print m

Global		
misterio	proc	
m	[3,2,1]	
рс	5	

### Imprime

misterio	Is	[ []
	рс	<i>9</i> 4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	0/1/2/3
misterio	i	[2,3] [3,2]
	m	[3]
	Is	[2,3]
	рс	012323
	i	-
misterio	m	-
	Is	[1,2,3]
	рс	321

6

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

print m

Global		
misterio	proc	
m	[3,2,1]	
рс	5	

### Imprime

misterio	Is	
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	0
IIIISterio	Is	[3]
	рс	0123
	i	-
misterio	m	[3]
	Is	[2,3]
	рс	0123232
misterio	i	-
	m	-
	Is	[1,2,3]
	рс	321

6

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

print m

	Global
misterio	proc
m	[3,2,1]
рс	5

### Imprime

misterio	Is	0
	рс	<i>Ø</i> 4
	i	[3]
misterio	m	
IIIIStorio	Is	[3]
	рс	9123
	i	-
misterio	m	-
Illisterio	Is	[2,3]
	рс	01232321
	i	-
misterio	m	-
	Is	[1,2,3]
	рс	321

6

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

print m

# Global misterio proc m [3,2,1] pc 5

### Imprime

[1,2,3]
[2,1,3]
[2,3,1]
[1,3,2]
[3,1,2]
[3,2,1]

misterio	Is	0
	рс	Ø 4
	i	-
misterio	m	0
Imsterio	Is	[3]
	рс	01232
	i	-
misterio	m	-
Illisterio	Is	[2,3]
	рс	01232321
	i	-
misterio	m	-
	Is	[1,2,3]
	рс	321

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

6 print m		
Global		
misterio	proc	
m	[3,2,1]	
рс	5	

### Imprime

misterio	ls	0
	рс	Ø 4
misterio	i	-
	m	-
	Is	[3]
	рс	012321
misterio	i	-
	m	-
	Is	[2,3]
	рс	01232321
misterio	i	-
	m	-
	Is	[1,2,3]
	рс	321

6

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

print m

Global		
misterio	proc	
m	[3,2,1]	
рс	5	

### Imprime

misterio	Is	0
	рс	Ø 4
misterio	i	-
	m	-
	Is	[3]
	рс	012321
misterio	i	-
	m	-
	Is	[2,3]
	рс	01232321
misterio	i	
	m	-
	Is	[1,2,3]
	рс	321

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

6 print in		
Global		
misterio	proc	
m	[3,2,1]	
рс	5	

### Imprime

misterio	Is	
	рс	Ø 4
misterio	i	-
	m	-
	Is	[3]
	рс	012321
misterio	i	-
	m	-
	Is	[2,3]
	рс	ØX232321
misterio	i	-
	m	-
	Is	[1,2,3]
	рс	321

6

def misterio(ls):
0 if ls:
1 for m in misterio(ls[1:]):
2 for i in ins(ls[0], m):
3 yield i
 else:
4 yield []

for m in misterio([1,2,3]):

print m

Global		
misterio	proc	
m	[3,2,1]	
рс	5	

### Imprime

misterio	Is	
	рс	<i>9</i> 4
misterio	i	-
	m	-
	Is	[3]
	рс	012321
misterio	i	-
	m	-
	Is	[2,3]
	рс	01232321
misterio	i	-
	m	-
	Is	[1,2,3]
	рс	321

### Código en Python **Imprime** [1,2,3] def misterio(ls): [2,1,3] if ls: 0 [2,3,1] for m in misterio(ls[1:]): [1,3,2] for i in ins(ls[0], m): [3,1,2] yield i [3,2,1] else: 4 yield [] for m in misterio([1,2,3]):

6

print m

# Programa Finalizado

"Mucho que aprender todavía tienes".

# El Misterio Develado

La función Misterio es un iterador que calcula las permutaciones posibles de una lista de n elementos pasada como argumento.

Para ello, la función obtiene todas las permutaciones posibles de los últimos n-1 elementos mediante una llamada recursiva. Luego apoyándose en la función ins que retorna cada una de las posibles inserciones de un elemento en una lista, retorna cada una de las formas posibles de insertar la cabeza de la lista recibida en cada una de las (n-1)! permutaciones obtenidas del caso recursivo.