

# Traducción Ifs y Ciclos

Código prueba 1

```
PROGRAM

DIM a as INT
DIM b as INT
DIM c as INT

FOR (a = 1, 3) {
    LET a = a + 1
    FOR (b = 3, 6) {
        LET b = b + 2
    }
}

PEND
```

```
los.py
***NO SYNTAX ERRORS***

0 = 1 a
1 <= a 3 T1
2 gotoF T1 12
3 + a 1 T2
4 = T2 a
5 = 3 b
6 <= b 6 T3
7 gotoF T3 11
8 + b 2 T4
9 = T4 b
10 goto 6
11 goto 1
{'a': 'INT', 'b': 'INT', 'c': 'INT'}
```

Código prueba 2

```
1 PROGRAM
2
3 DIM a as INT
4 DIM b as INT
5 DIM x as INT
6 DIM y as INT
7 DIM z as INT
8
9 WHILE (x < y) {
10     IF (a > b) {
11         DO {
12             LET y = 3
13             LET z = 4
14         } WHILE (x > a)
15     } ELSE {
16         WHILE (y < b) {
17             LET y = y + 1
18         }
19     }
20 }
21
22 PEND
```

```
los.py
***NO SYNTAX ERRORS***

0 < x y T1
1 gotoF T1 13
2 > a b T2
3 gotoF T2 9
4 = 3 y
5 = 4 z
6 > x a T3
7 gotoF T3 4
8 goto 13
9 < y b T4
10 gotoF T4 13
11 + y 1 T5
12 = T5 y
{'a': 'INT', 'b': 'INT', 'x': 'INT', 'y': 'INT', 'z': 'INT'}
```

### Código prueba 3

```
1  PROGRAM
2
3  DIM a as INT
4  DIM b as INT
5  DIM c as INT
6  DIM d as INT
7  DIM e as INT
8  DIM f as INT
9
10 IF (a > b) {
11     IF (b < c) {
12         LET a = b
13     } ELSE {
14         LET b = c + d
15     }
16 } ELSE {
17     IF (d > e) {
18         LET d = f
19     } ELSE {
20         LET d = e
21     }
22 }
23
24 PEND
```

```
***NO SYNTAX ERRORS***
0 > a b T1
1 gotoF T1 9
2 < b c T2
3 gotoF T2 6
4 = b a
5 goto 8
6 + c d T3
7 = T3 b
8 goto 14
9 > d e T4
10 gotoF T4 13
11 = f d
12 goto 14
13 = e d
{'a': 'INT', 'b': 'INT', 'c': 'INT', 'd': 'INT', 'e': 'INT', 'f': 'INT'}
```