

INGENIERÍA MECATRÓNICA



DI\_CERO

DIEGO CERVANTES RODRÍGUEZ

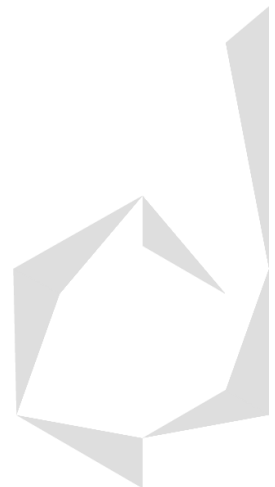
AUTOMATIZACIÓN INDUSTRIAL: PRÁCTICA

ISP SOFT Y COMMGR

4: Marcas Internas PLC

## Contenido

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| Desarrollo:..... | 2 |
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## Desarrollo:

1. Escoger un ejercicio de índole lógico-combinatorio y desarrollarlo usando marcas internas.

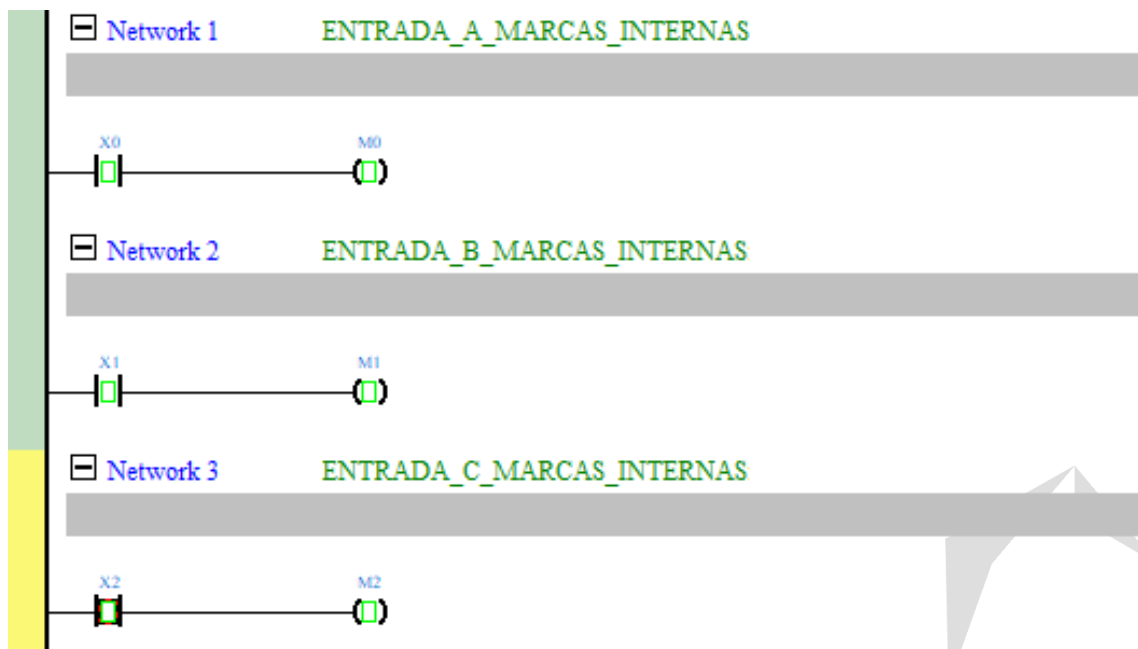
Se desarrollará la compuerta XOR haciendo uso de las marcas internas M0, M1 y M2.

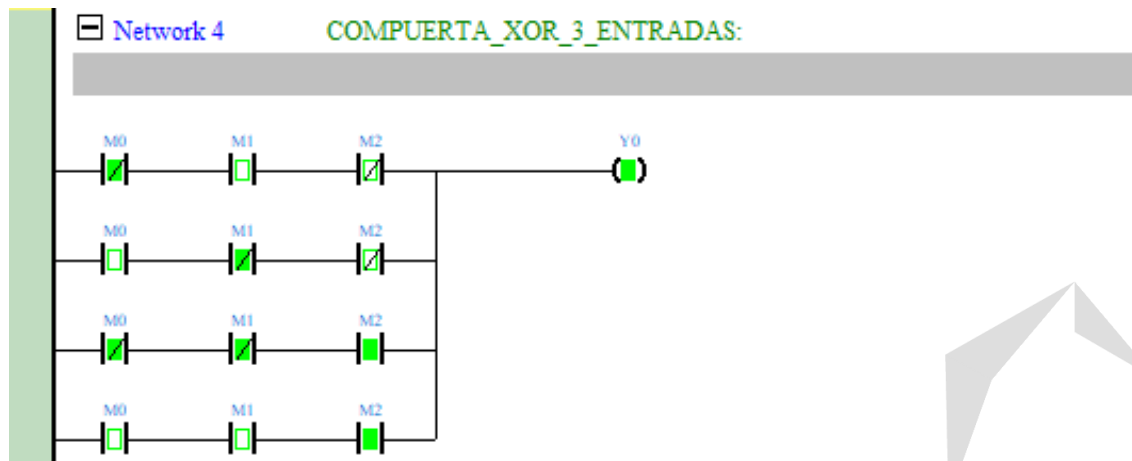
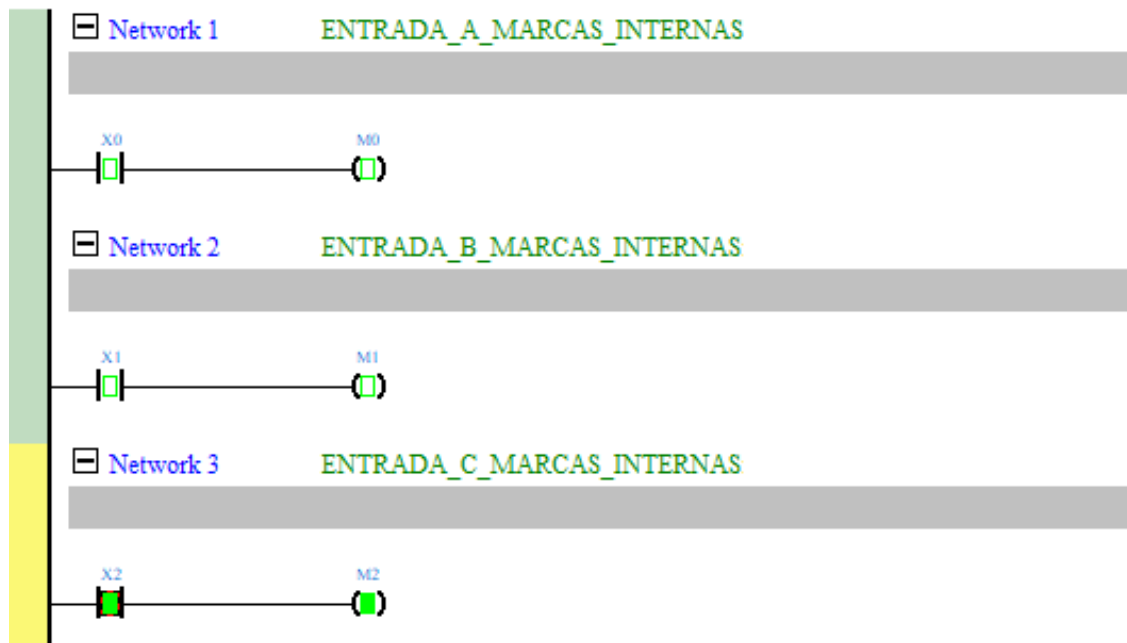
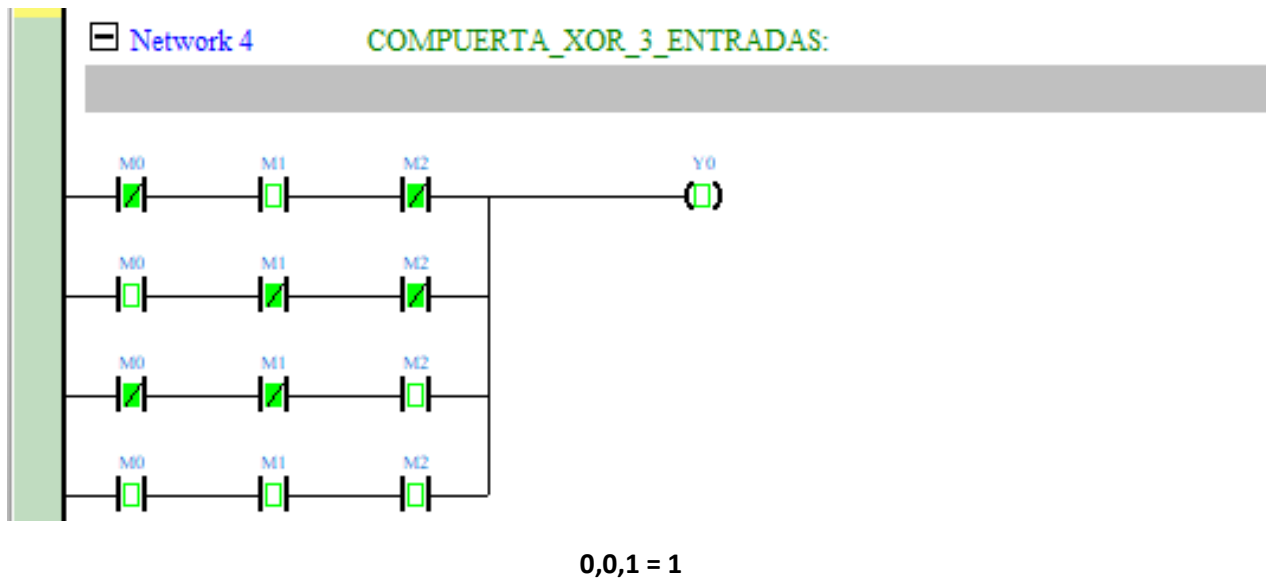
$$F = \bar{C}(\bar{A}B + A\bar{B}) + C(\bar{A}\bar{B} + AB)$$

| A | B | C | F |
|---|---|---|---|
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 |

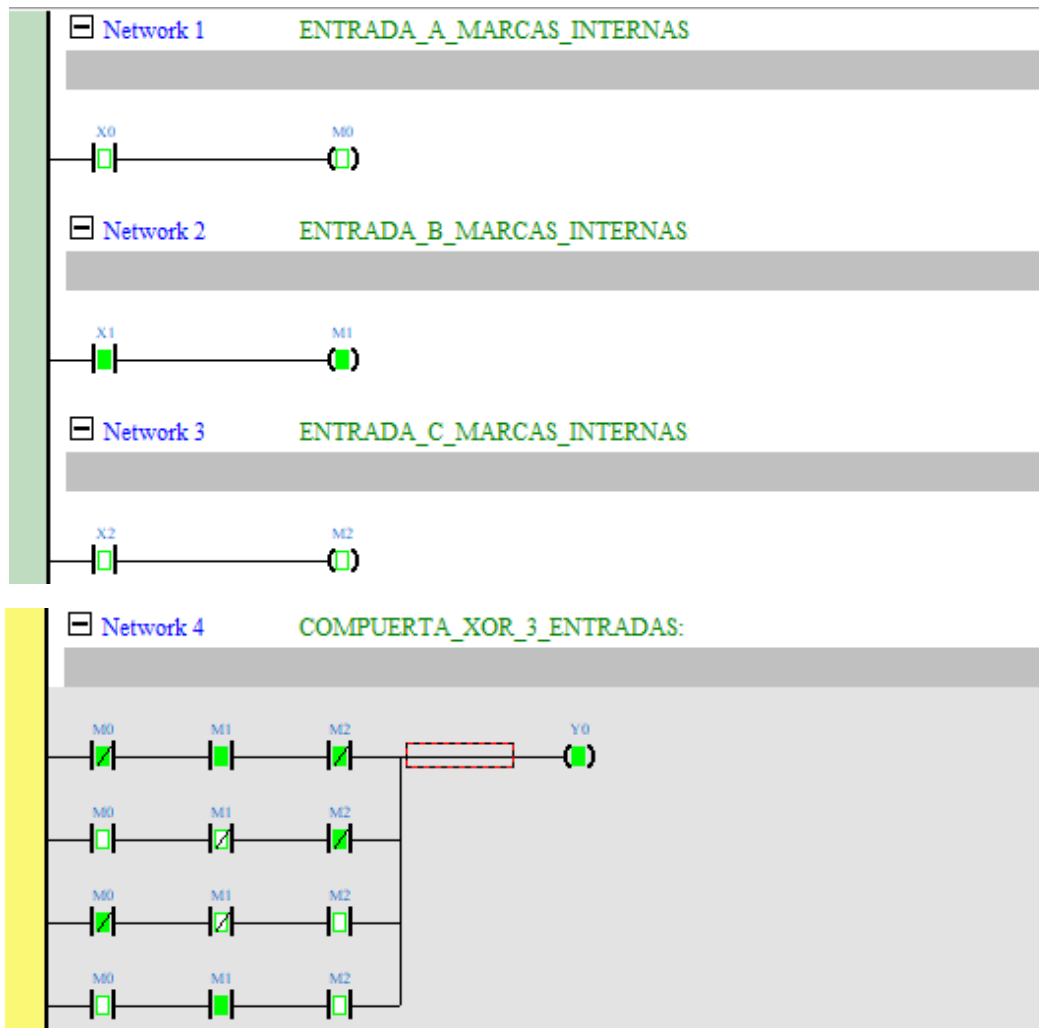


0,0,0 = 0

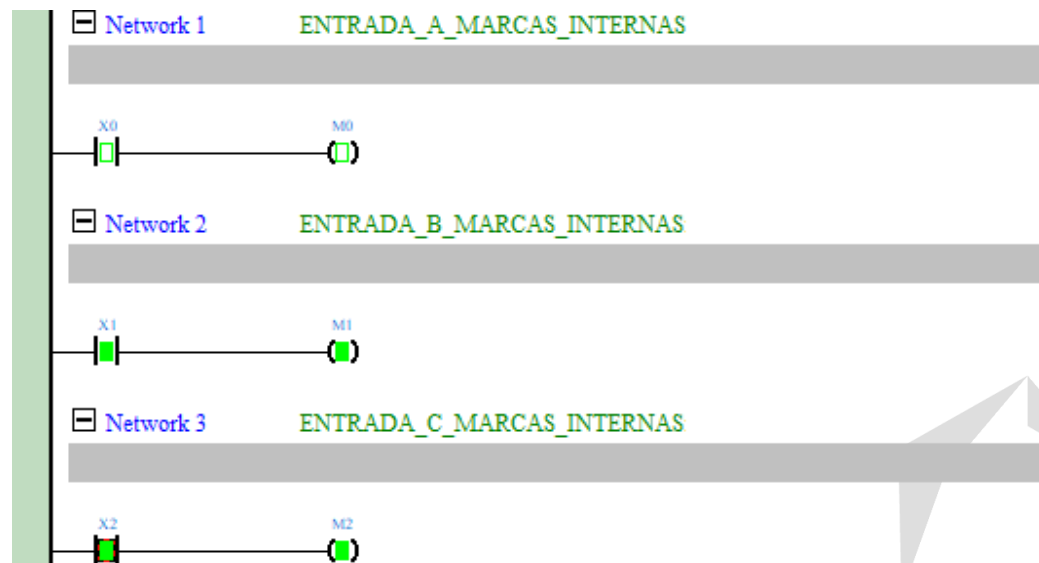


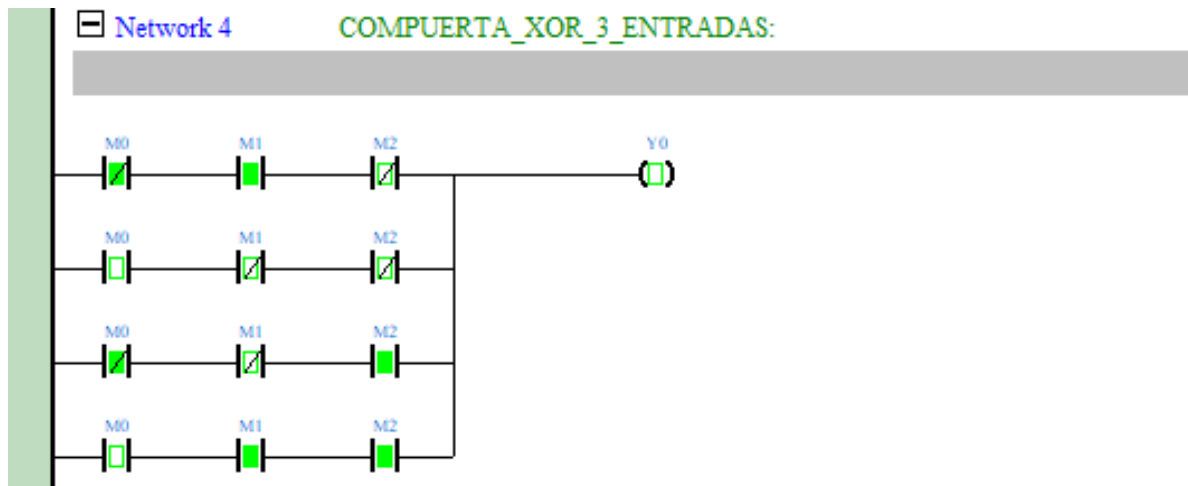


0,1,0 = 1

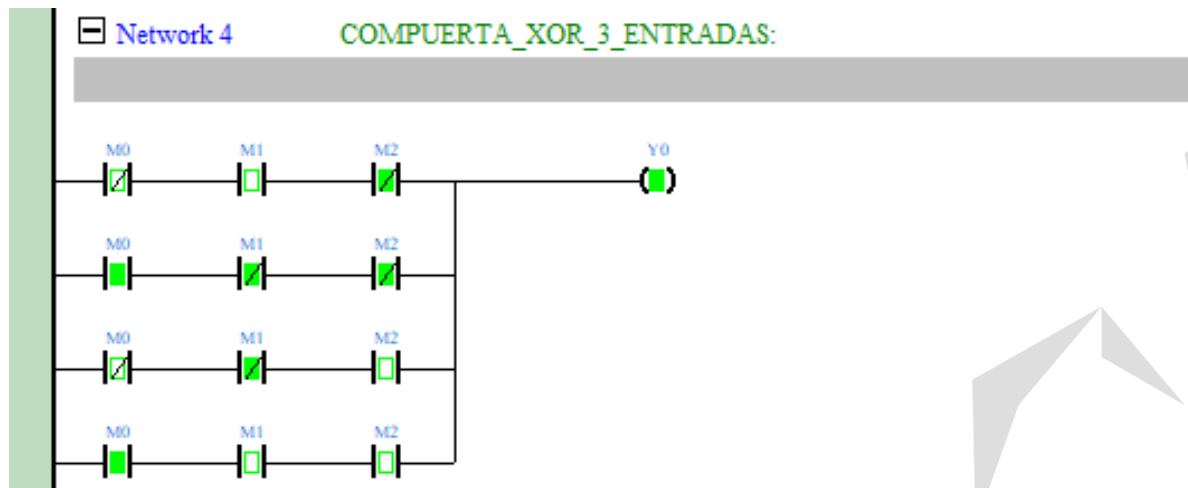
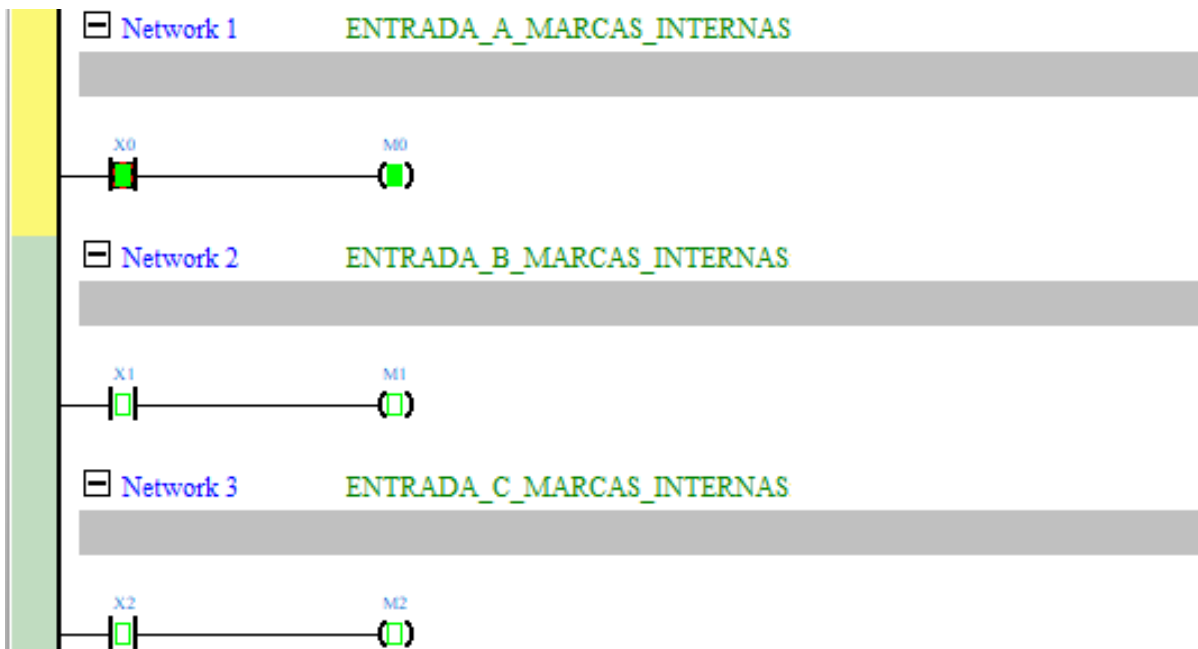


0,1,1 = 0

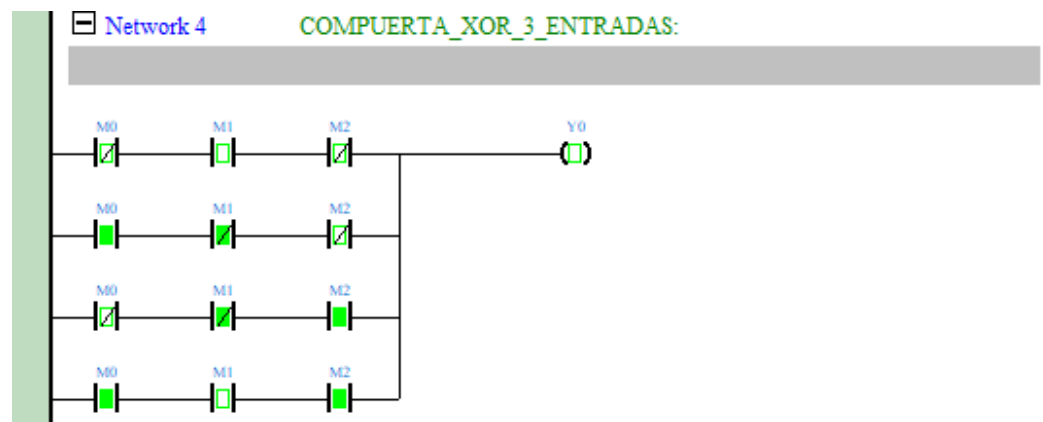
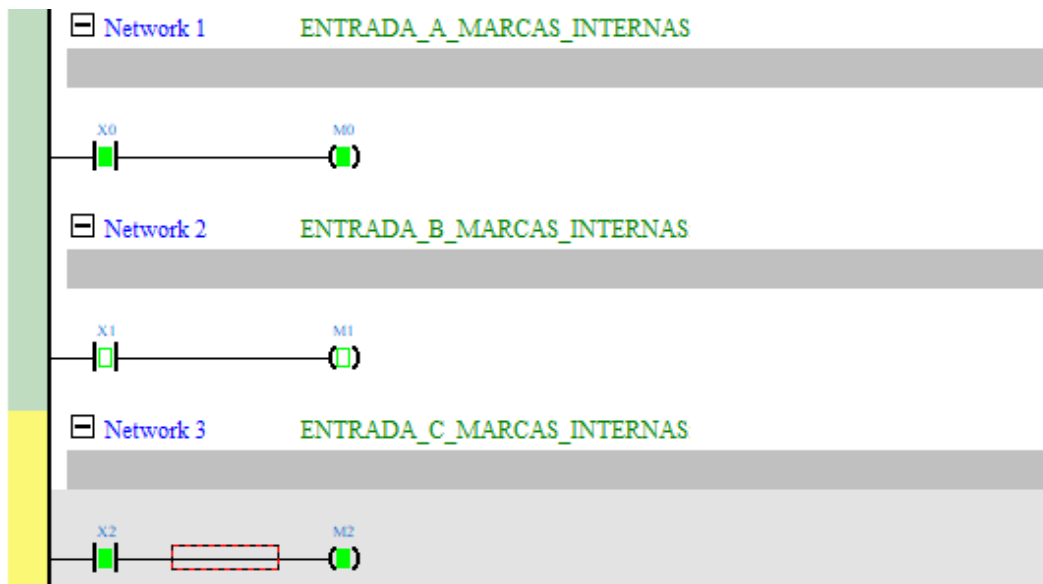




1,0,0 = 1



$$1,0,1 = 0$$



$$1,1,0 = 0$$

