START

GO TO BANK1

Se pasa al banco 1

S0=TRISB0=1
S1=TRISB1=1
S2=TRISB2=1
S3=TRISB3=1
S4=TRISB4=1
MI=TRISC0=0
MIR=TRIC1=0
MD=TRISBC2=0
MDR=TRISC3=0
LR=TRISBC4=0
LAI=TRISBC5=0
LAD=TRISBC6=0

Se definen las entradas (Puerto B [0-4]) y salidas (Puerto C [0-7])

RP0=0
W = Port B
W = d31 = 0b 0 0 0 B4 1 1 1 1
Registro 20x = W
W = W AND 0b 0 0 0 1 0 0 0 0
Registro 21x = W (0 0 0 B4 0 0 0 0)
Registro 21x = Rotar a la derecha registro 21x (0 0 0 0 B4 0 0 0)
Registro 21x = Rotar a la derecha registro 21x (0 0 0 0 0 B4 0 0)
Registro 21x = Rotar a la derecha registro 21x (0 0 0 0 0 0 B4 0)
Registro 21x = Rotar a la derecha registro 21x (0 0 0 0 0 0 0 B4)
W = registro 21x
W = W AND 0b00000001 (0 0 0 0 0 0 0 B4)
Registro 21x = W

Vuelvo al banco 0

S4=B4 -> Registro 21

W = Port B
W = d85 = 0b 0 1 0 1 B3 1 0 1
Registro 20x = W
W = W AND 0b00001000
Registro 22x = W (0 0 0 0 B3 0 0 0)
Registro 22x = Rotar a la derecha registro 22x (0 0 0 0 0 B3 0 0)
Registro 22x = Rotar a la derecha registro 22x (0 0 0 0 0 0 B3 0)
Registro 22x = Rotar a la derecha registro 22x (0 0 0 0 0 0 0 B3)
W = registro 22x
W = W AND 0b00000001 (0 0 0 0 0 0 0 B3)
Registro 22x = W

S3=B3 -> Registro 22

W = Port B
W = d170 = 0b 1 0 1 0 1 B2 1 0
Registro 20x = W
W = W AND 0b00000100
Registro 23x = W (0 0 0 0 0 B2 0 0)
Registro 23x = Rotar a la derecha registro 23x (0 0 0 0 0 0 B2 0)
Registro 23x = Rotar a la derecha registro 23x (0 0 0 0 0 0 0 B2)
W = registro 23x
W = W AND 0b00000001 (0 0 0 0 0 0 0 B2)
Registro 23x = W

S2=B2 -> Registro 23

W = Port B
W = d85 = 0b 0 1 0 1 0 1 B1 1
Registro 20x = W
W = W AND 0b00000010
Registro 24x = W (0 0 0 0 0 0 B1 0)
Registro 24x = Rotar a la derecha registro 24x (0 0 0 0 0 0 0 B1)
W = registro 24x
W = W AND 0b00000001 (0 0 0 0 0 0 0 B1)
Registro 24x = W

S1=B1 -> Registro 24

W = Port B
W = d170 = 0b 1 0 1 0 1 0 1 B0
Registro 20x = W
W = W AND 0b00000001 (0 0 0 0 0 0 0 B0)
Registro 25x = W

S0=B0 -> Registro 25

RP0=0
W = Port B
W = d170 = 0b 1 0 1 B4 1 0 1 0
Registro 20x = W
W = W AND 0b 0 0 0 1 0 0 0 0
Registro 26x = W (0 0 0 B4 0 0 0 0)
Registro 26x = Rotar a la derecha registro 26x (0 0 0 0 B4 0 0 0)
Registro 26x = Rotar a la derecha registro 26x (0 0 0 0 0 B4 0 0)
Registro 26x = Rotar a la derecha registro 26x (0 0 0 0 0 0 B4 0)
Registro 26x = Rotar a la derecha registro 26x (0 0 0 0 0 0 0 B4)
Registro 26x = Complemento 26x (1 1 1 1 1 1 1 B4')
W = registro 26x
W = W AND 0b00000001 (0 0 0 0 0 0 0 B4')
Registro 26x = W

S4'=B4' -> Registro 26

RP0=0
W = Port B
W = d85 = 0b 0 1 0 1 B3 1 0 1
Registro 20x = W
W = W AND 0b 0 0 0 0 1 0 0 0
Registro 26x = W (0 0 0 0 B3 0 0 0)
Registro 27x = Rotar a la derecha registro 26x (0 0 0 0 0 B3 0 0)
Registro 27x = Rotar a la derecha registro 26x (0 0 0 0 0 0 B3 0)
Registro 27x = Rotar a la derecha registro 26x (0 0 0 0 0 0 0 B3)
Registro 27x = Complemento 27x (1 1 1 1 1 1 1 B3')
W = registro 27x
W = W AND 0b00000001 (0 0 0 0 0 0 0 B3')
Registro 27x = W

S3'=B3' -> Registro 27

W = Port B
W = d170 = 0b 1 0 1 0 1 B2 1 0
Registro 20x = W
W = W AND 0b00000100
Registro 28x = W (0 0 0 0 0 B2 0 0)
Registro 28x = Rotar a la derecha registro 28x (0 0 0 0 0 0 B2 0)
Registro 28x = Rotar a la derecha registro 28x (0 0 0 0 0 0 0 B2)
Registro 28x = Complemento (1 1 1 1 1 1 1 B2')
W = registro 28x
W = W AND 0b00000001 (0 0 0 0 0 0 0 B2')
Registro 28x = W

S2'=B2' -> Registro 28

RP0=0
W = Port B
W = d85 = 0b 0 1 0 1 0 1 B1 1
Registro 20x = W
W = W AND 0b 0 0 0 00 0 1 0
Registro 29x = W (0 0 0 0 0 0 B1 0)
Registro 29x = Rotar a la derecha registro 26x (0 0 0 0 0 0 0 B1)
Registro 29x = Complemento 29x (1 1 1 1 1 1 1 B1')
W = registro 29x
W = W AND 0b00000001 (0 0 0 0 0 0 0 B1')
Registro 29x = W

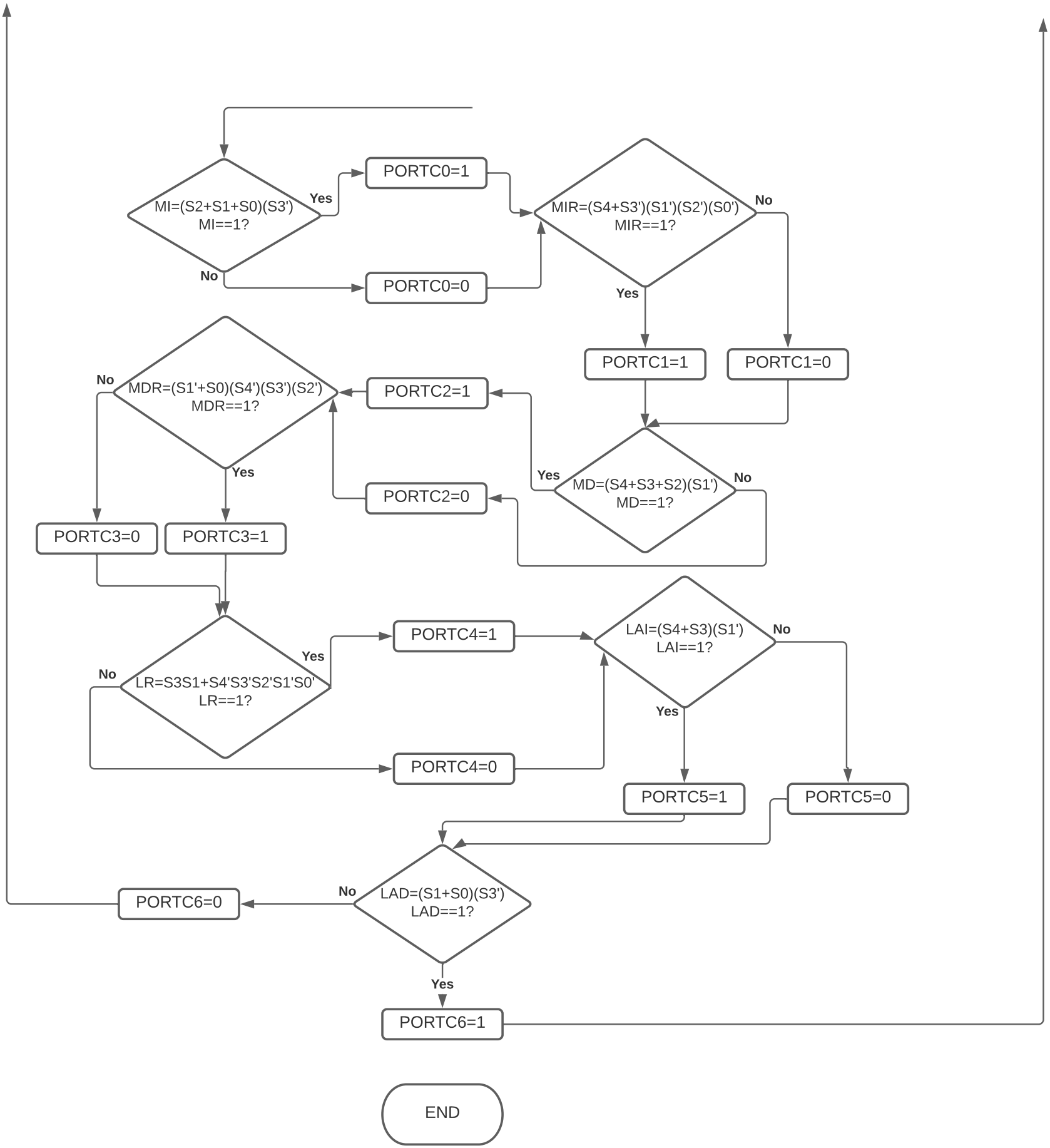
S1'=B1' -> Registro 29

W = Port B
W = d170 = 0b 1 0 1 0 1 0 1 B0
Registro 20x = W
W = W AND 0b00000001 (0 0 0 0 0 0 0 B0)
Registro 30x = W
Registro 30x = Complemento Registro 30x (0 0 0 0 0 0 0 B0')
W = registro 30x
W = W AND 0b00000001 (0 0 0 0 0 0 0 B0')
Registro 30x = W

S0'=B0' -> registro 30

No

Yes


MI=(S2+S1+S0)(S3')
MI==1?
Yes
PORTC0=1
No
PORTC0=0
MIR=(S4+S3')(S1')(S2')(S0')
MIR==1?
No
Yes
PORTC1=1
PORTC1=0
MDR=(S1'+S0)(S4')(S3')(S2')
MDR==1?
No
Yes
PORTC2=1
PORTC2=0
MD=(S4+S3+S2)(S1')
MD==1?
Yes
No
PORTC3=0
PORTC3=1
LR=S3S1+S4'S3'S2'S1'S0'
LR==1?
Yes
No
PORTC4=1
PORTC4=0
LAI=(S4+S3)(S1')
LAI==1?
No
Yes
PORTC5=1
PORTC5=0
LAD=(S1+S0)(S3')
LAD==1?
No
Yes
PORTC6=0
PORTC6=1
END