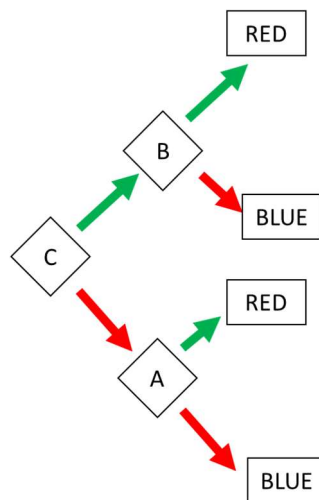


## C3- S8 PRACTICE

### Flowchart to Boolean expression

Example

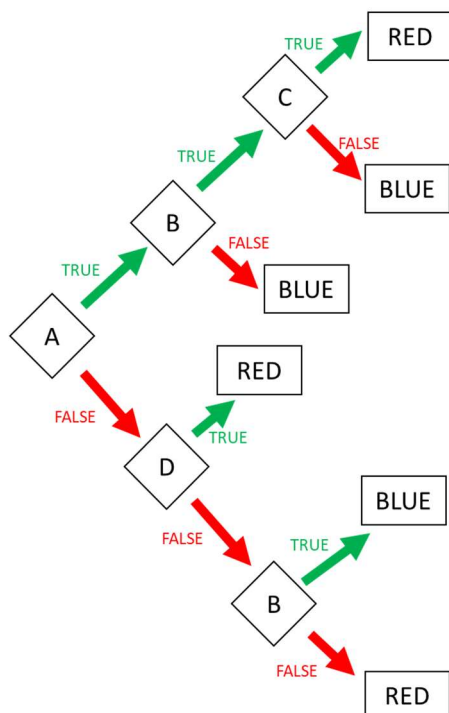


Answer:

RED = (C and B) or (!C and A)

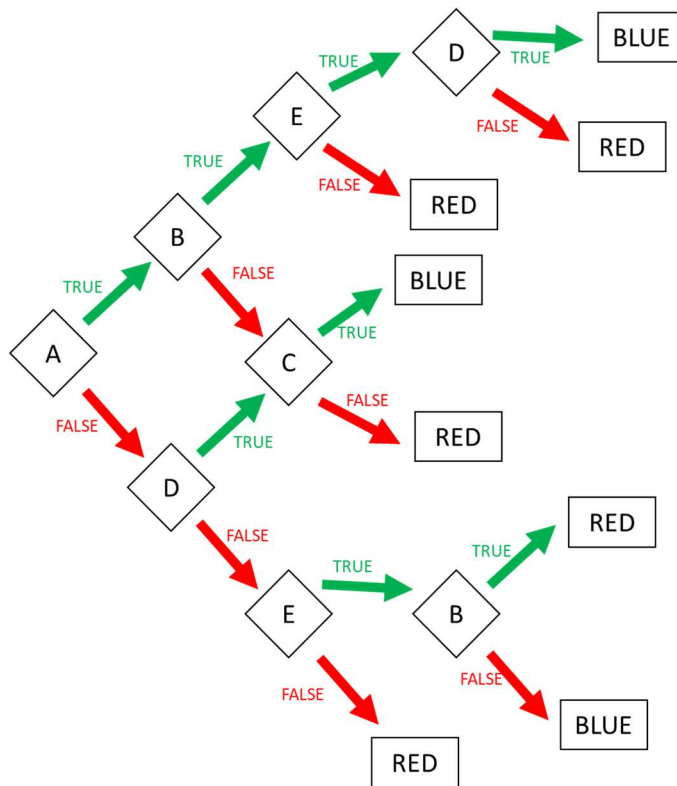
BLUE = (C and !B) or (!C and !A)

### Ex 1: Find the Boolean expression of BLUE



BLUE = (A and !B) or (A and B and !C) or !A and !D and B

## Ex 2: Find the Boolean expression of BLUE

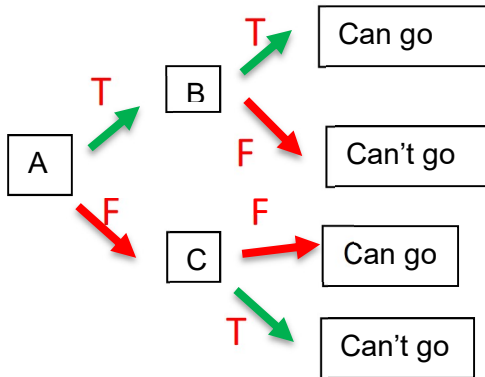


BLUE = (A and B and E and D ) or (A and !B and C) or (!A and D and C) or (!A and !D and E and !B)

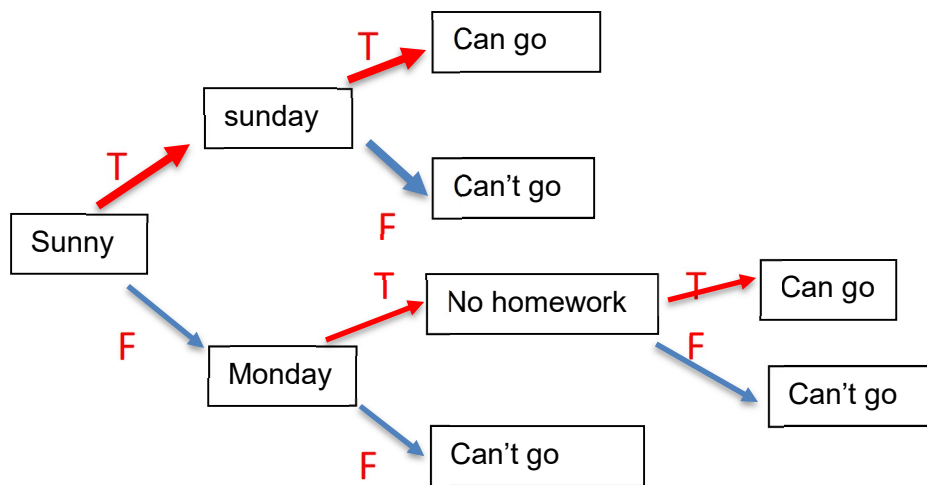
## Ex 2: Create the flowchart according to the expressions (4 flowcharts):

1. Go to the market =  $AB$  or  $!A!C$
2. Go to swim = ( Sunny AND Sunday) OR ( !(Sunny) and Monday and no homework)
3. I'm superman =  $A!BCD$  or  $AB!CD$  or  $!ABCD$
4. Happy =  $ABC!DE!F$  or  $A!BCD!EF$  or  $!ABCD!E$  or  $!A!BC$

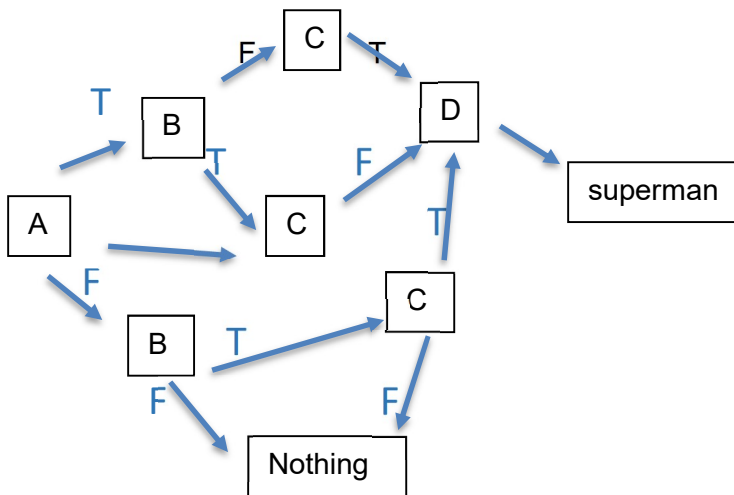
## 1. Go to the market



2. Go to swim = ( Sunny AND Sunday) OR ( !(Sunny) and Monday and no homework)



3. I'm superman = A!BCD or AB!CD or !ABCD

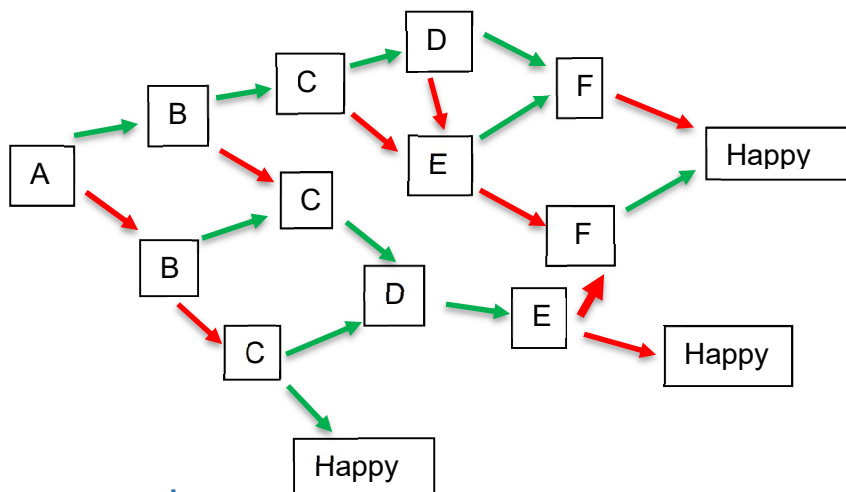


A!BCD

AB!CD

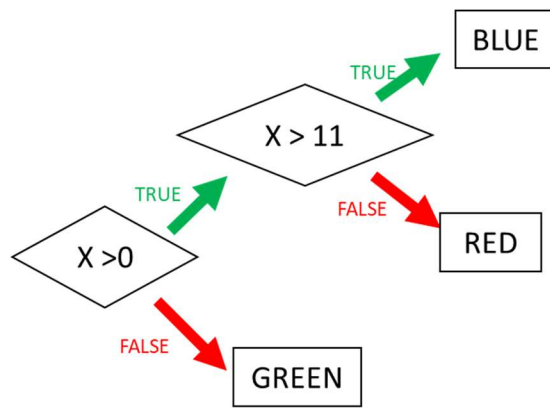
!ABCD

4. Happy = ABC!DE!F or A!BCD!EF or !ABCD!E or !A!BC

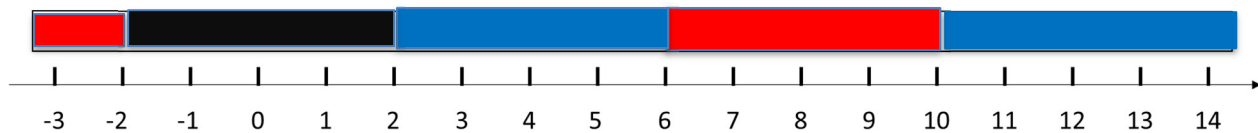
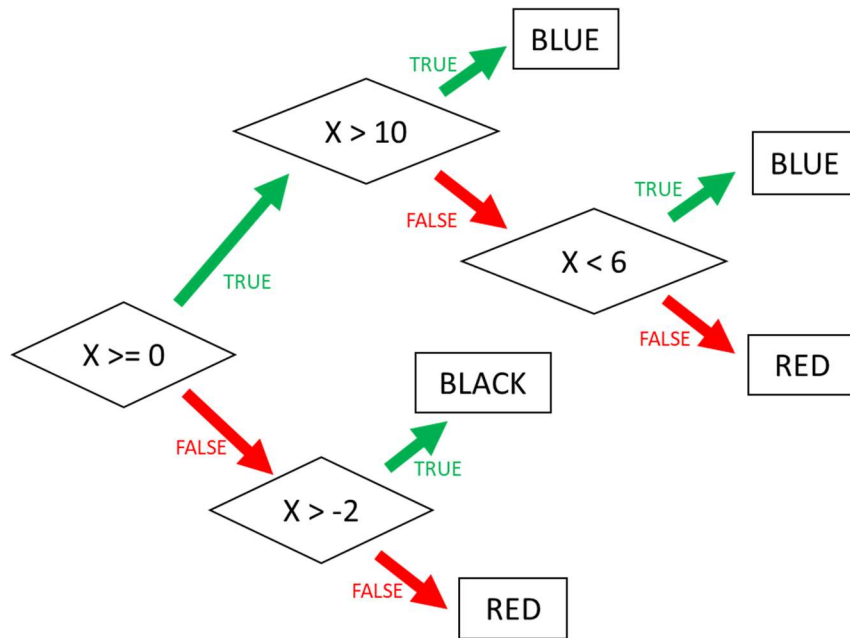


1D range colors

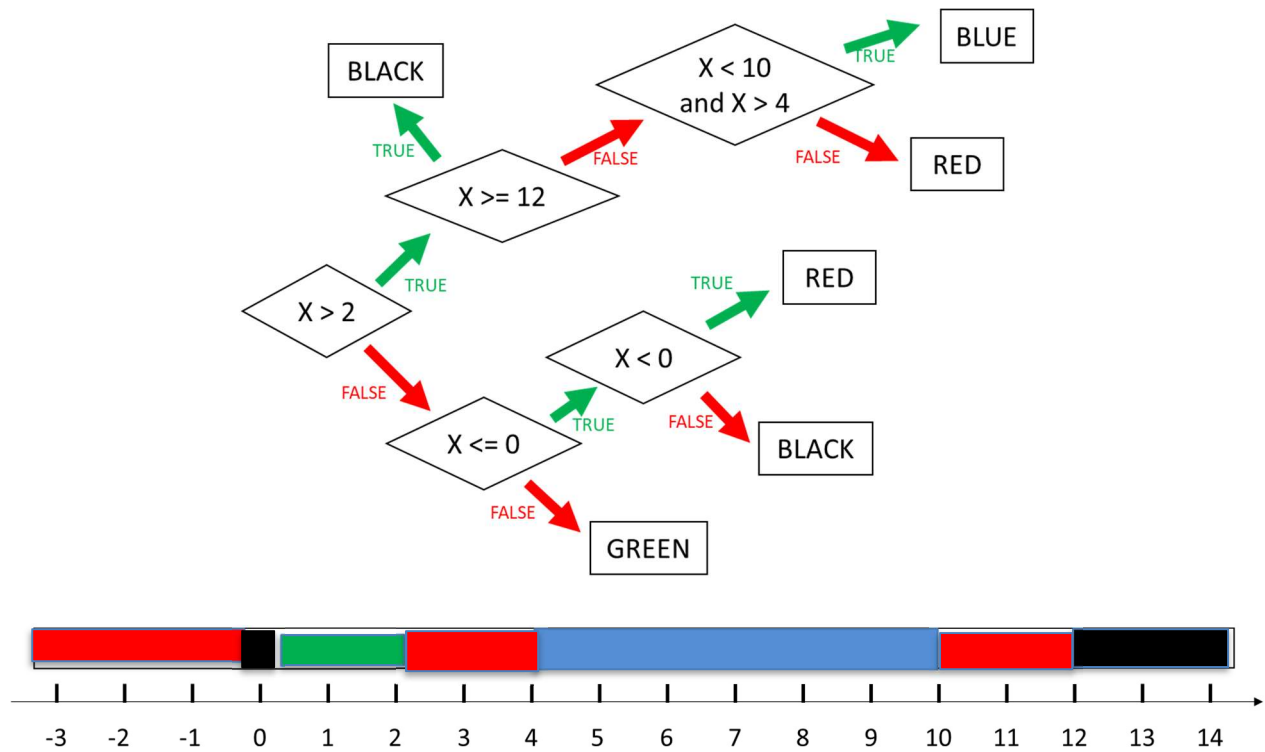
Example:



### Ex 3: Ranges (1)

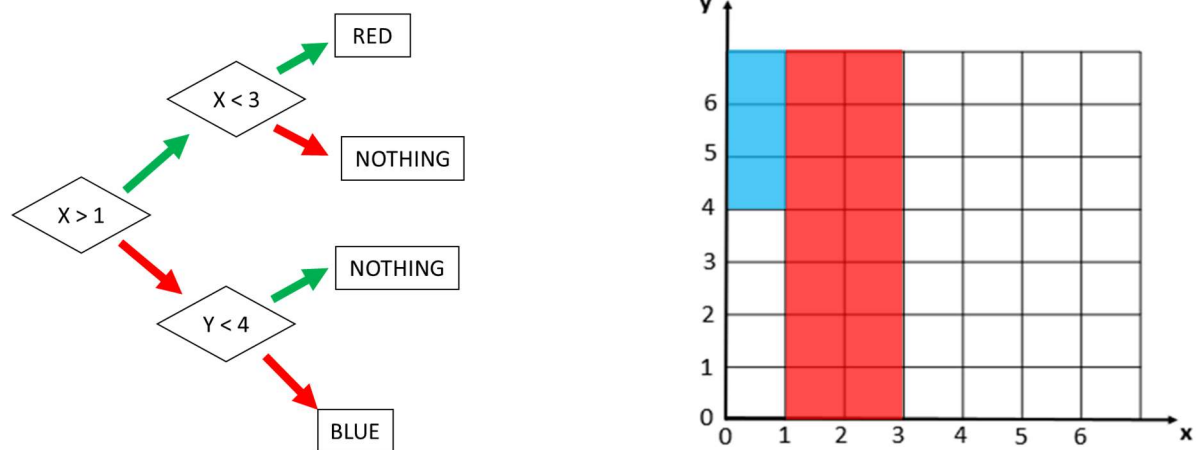


### Ex 4: Ranges (2)

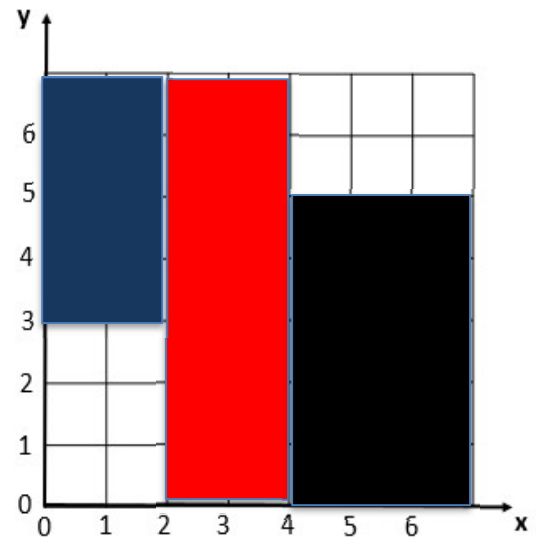
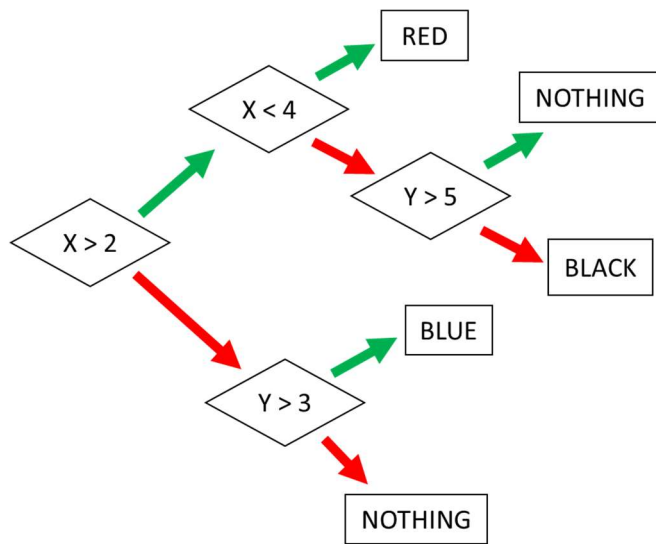


## 2D range colors

Example:



Ex 5: Square (1)



### Ex 6: Square (2)

