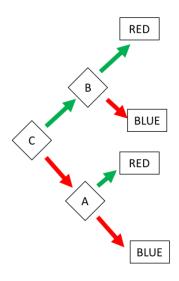
# C3-S8 PRACTICE

## Flowchart to Boolean expression

#### Example

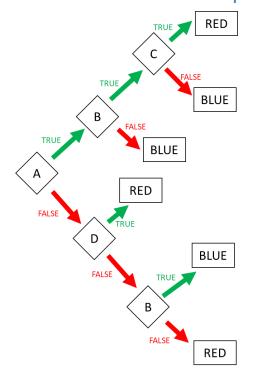


#### Answer:

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

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

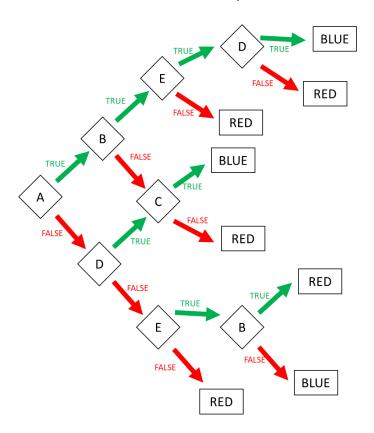
### Ex 1: Find the Boolean expression of BLUE



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

= (AB!C or A!B or !A!DB)

### Ex 2: Find the Boolean expression of BLUE

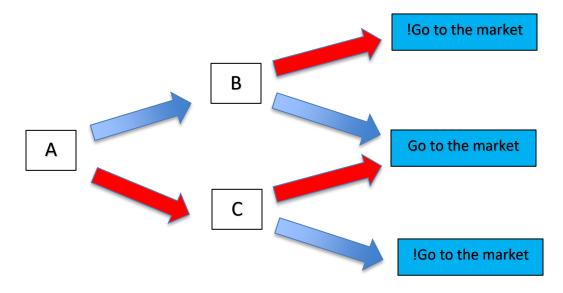


BLUE = (A and B and E and D) or (A and !B and C) or (!A and !B and E and !D) = ABED or !A!BE!D or A!BC

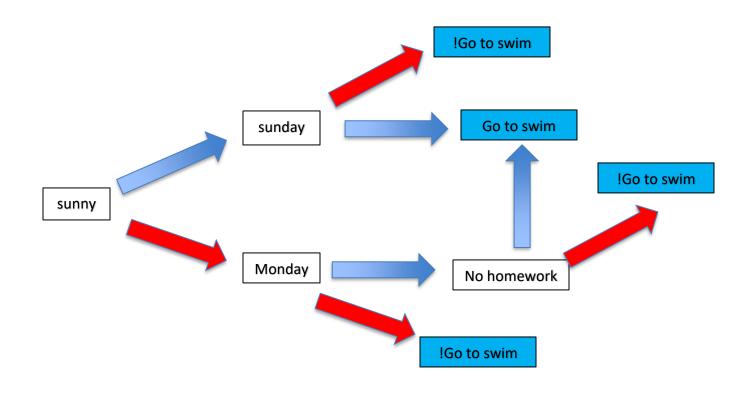
### Ex 2: Create the flowchart according to the expressions (4 flowcharts):



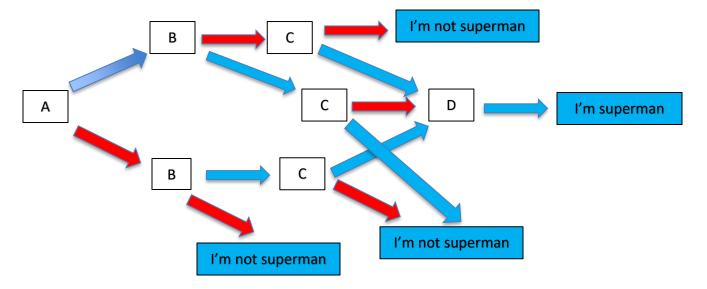
1. Go to the market = AB or !A!C

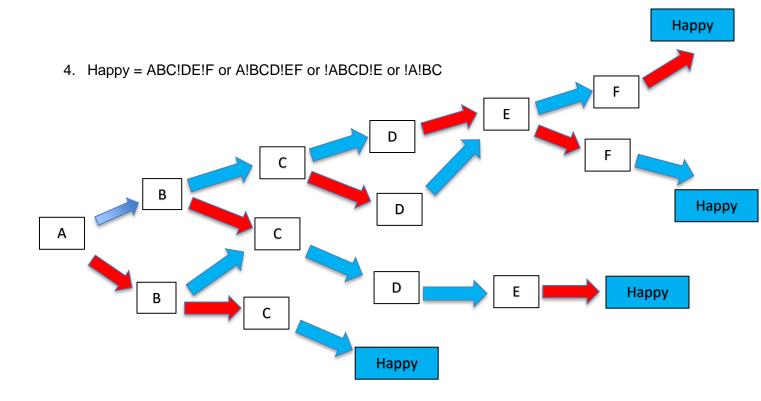


2. Go to swim = ( Sunny AND Sunday) OR (!(Sunny) and Monday and no homework)

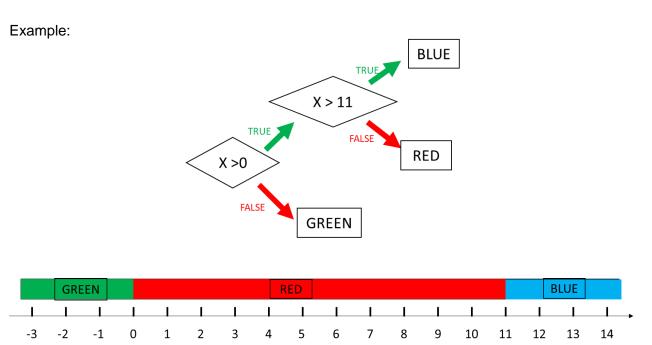


3. I'm superman = A!BCD or AB!CD or !ABCD

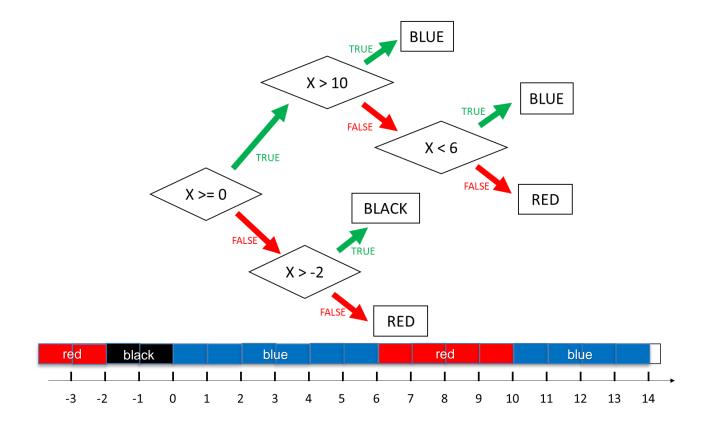




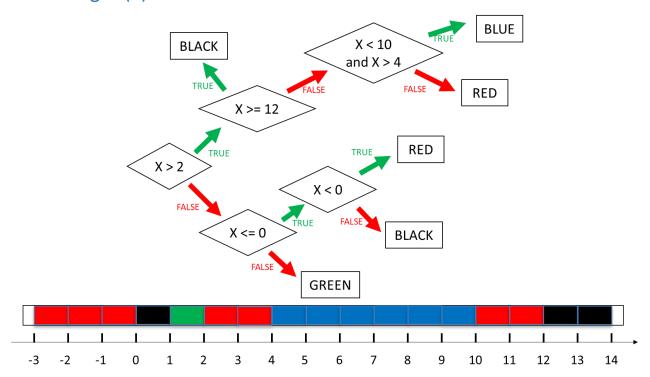
## 1D range colors



Ex 3: Ranges (1)

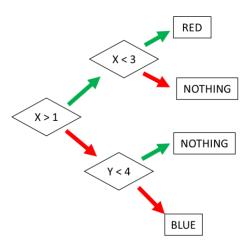


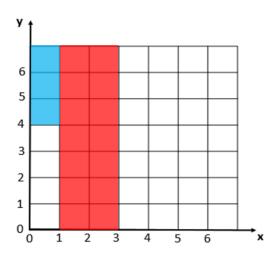
Ex 4: Ranges (2)



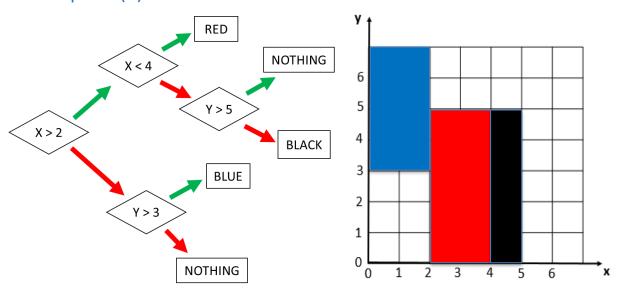
# 2D range colors

### Example:





Ex 5: Square (1)



Ex 6: Square (2)

