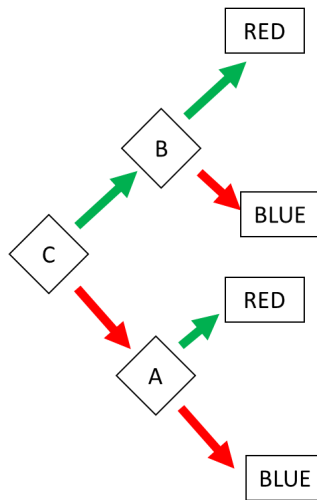


C3- S8 PRACTICE

Flowchart to Boolean expression

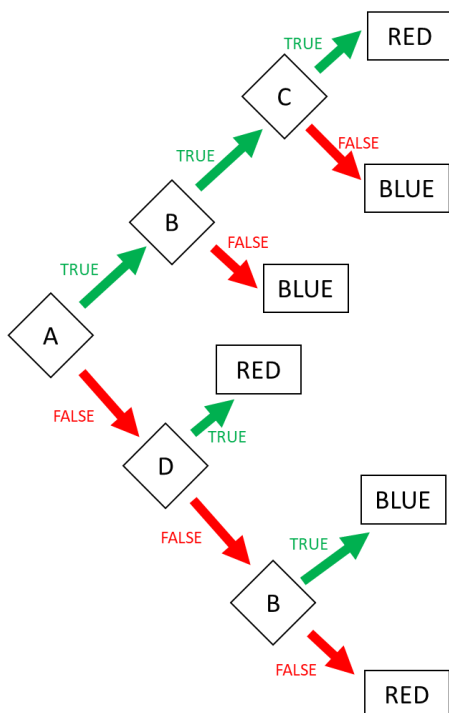
Example



Answer:

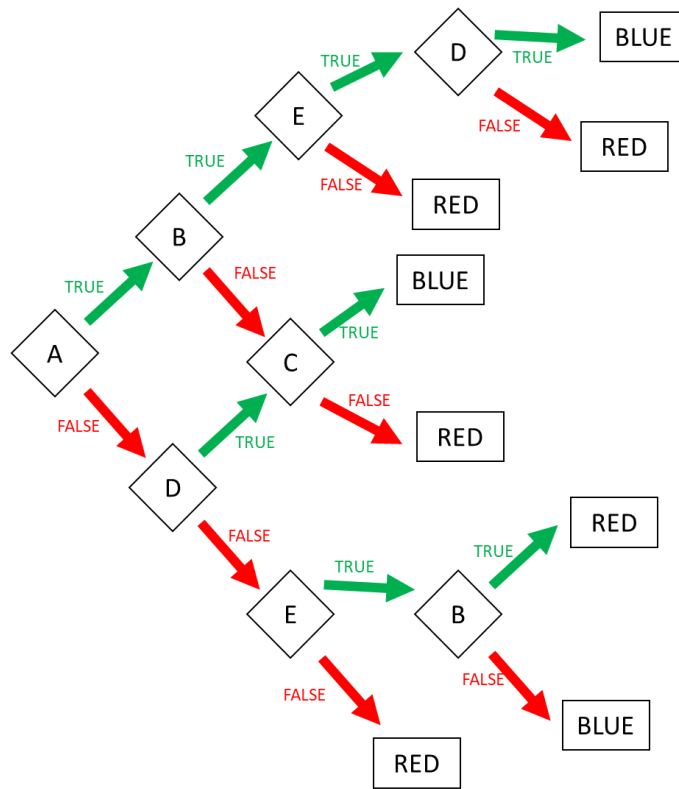
RED = (C and B) or (!C and A)
BLUE = (C and !B) or (!C and !A)

Ex 1: Find the Boolean expression of BLUE



BLUE =

Ex 2: Find the Boolean expression of BLUE



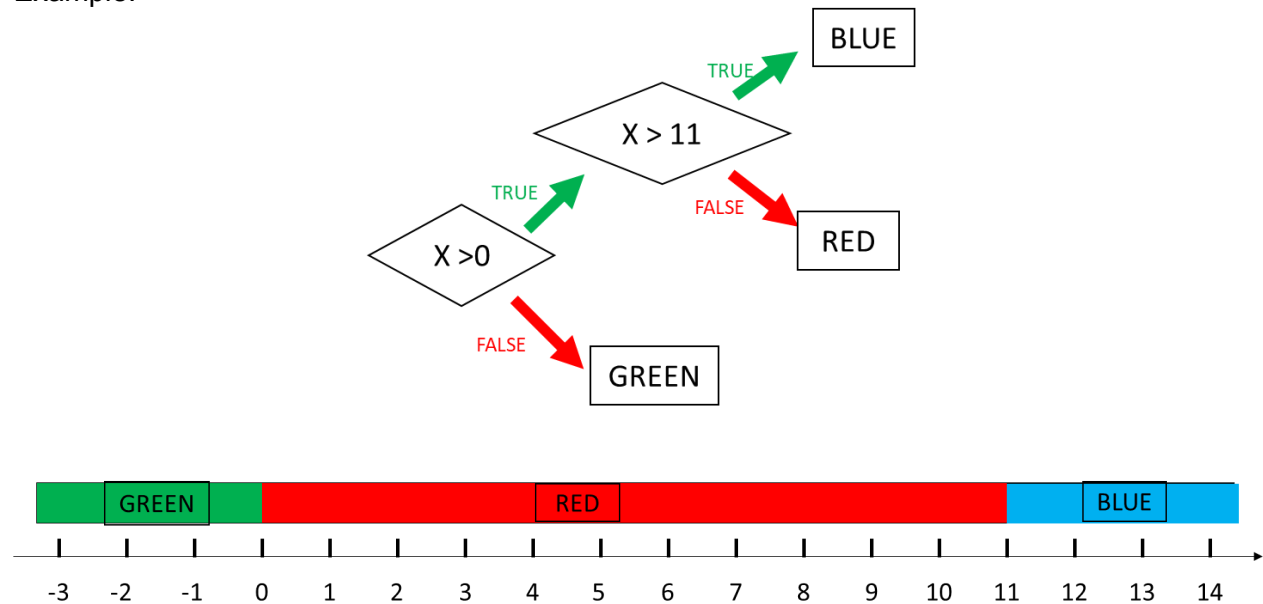
BLUE =

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

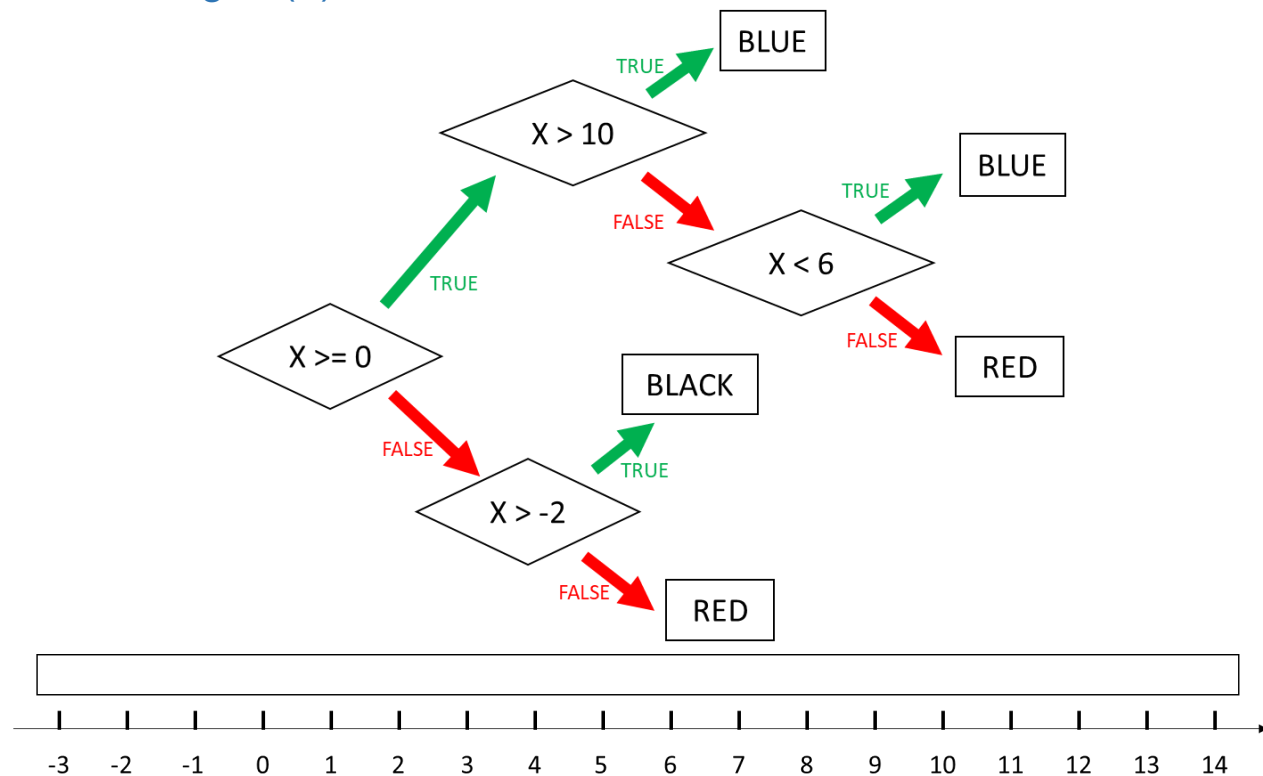
1. Go to the market = $AB \text{ or } !A!C$
2. Go to swim = $(\text{Sunny AND Sunday}) \text{ OR } (!(\text{Sunny}) \text{ and Monday and no homework})$
3. I'm superman = $A!BCD \text{ or } AB!CD \text{ or } !ABCD$
4. Happy = $ABC!DE!F \text{ or } A!BCD!EF \text{ or } !ABCD!E \text{ or } !A!BC$

1D range colors

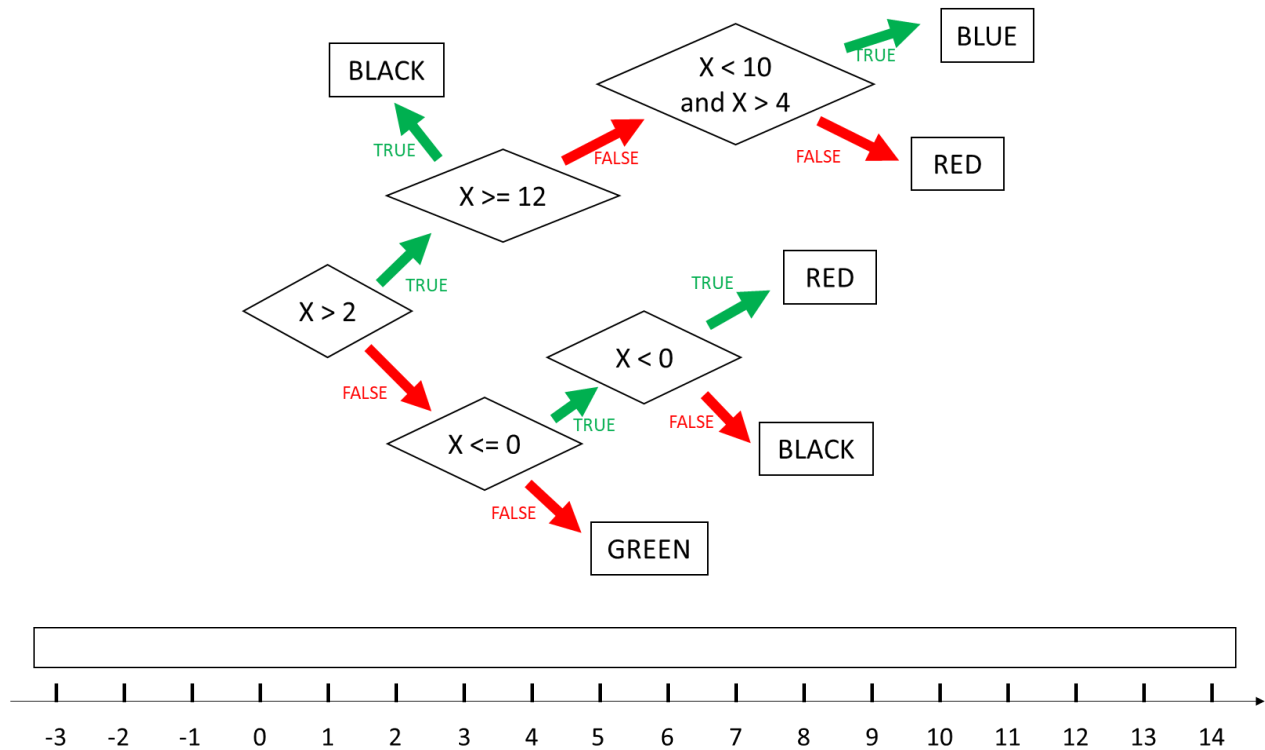
Example:



Ex 3: Ranges (1)

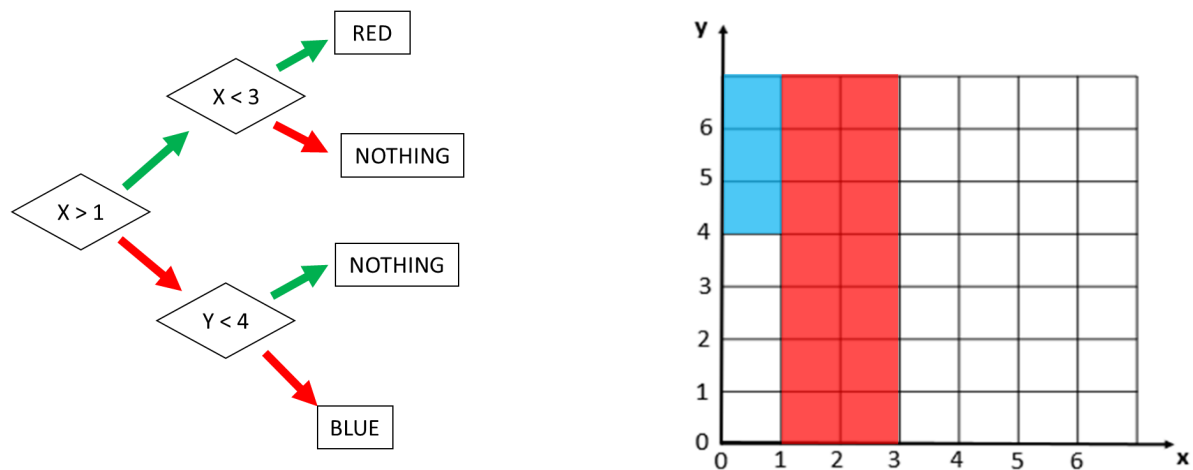


Ex 4: Ranges (2)

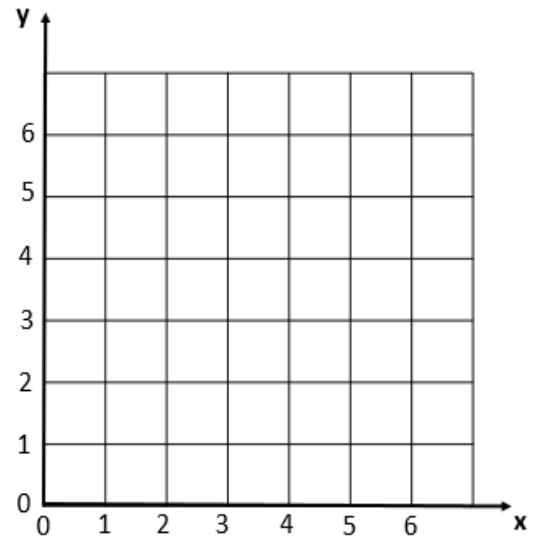
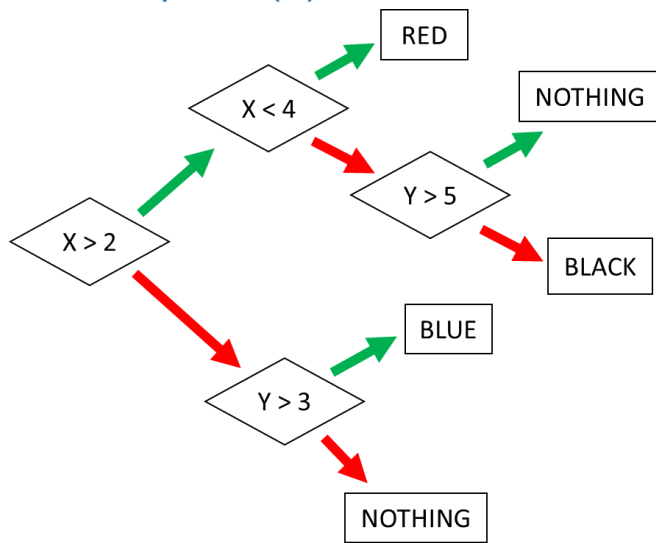


2D range colors

Example:



Ex 5: Square (1)



Ex 6: Square (2)

